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LEXIKON
DER
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SUPPLEMENT III.



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LEXIKON

DER

KOHLNSTOFF-VERBINDUNGEN

VON

M. M. RICHTER.

SUPPLEMENT III

UMFASSEND

DIE LITTERATURJAHRE 1903 UND 1904.

HAMBURG UND LEIPZIG
VERLAG VON LEOPOLD VOSS

1905

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	Seite
Verzeichnis der Verbindungen 1 I bis 95 III	1
Register der Eigennamen	577



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Abkürzungen. — Abbreviations. — Abréviations. — Abbreviazioni.

- A.* LIEBIG's Annalen der Chemie.
- A. ch.* Annales de chimie et de physique.
- Am.* American chemical Journal.
- Am. Soc.* Journal of the American chemical Society.
- A. Pth.* Archiv für experimentelle Pathologie und Pharmakologie.
- Ar.* Archiv der Pharmacie.
- B.* Berichte der Deutschen chemischen Gesellschaft.
- Bl.* Bulletin de la société chimique de Paris.
- Bulet.* Buletinul societății de științe din București.
- C.* Chemisches Centralblatt.
- C. r.* Comptes rendus de l'académie des sciences.
- Ch. J.* Chemische Industrie.
- Ch. Z.* Chemiker-Zeitung (Cöthen).
- Chem. N.* Chemical News.
- D.* DINGLER's Polytechnisches Journal.
- D.R.P.* Patentschrift des Deutschen Reiches.
- El. Ch. Z.* Elektrochemische Zeitschrift.
- Fr.* (FRESENIUS') Zeitschrift für analytische Chemie.
- Frdl.* FRIEDLÄNDER's Fortschritte der Theerfarbenfabrication (Berlin, SPRINGER).
- G.* Gazzetta chimica italiana.
- Gm.* L. GMELIN's Handbuch der organischen Chemie. 4. Aufl. Band 1—4 (1848—1870) und Supplementband 1—2 (1867—1868).
- Grh.* GERHARDT, Traité de chimie organique. 4 Bände. (1853—1856).
- H.* (HOPPE-SEYLER's) Zeitschrift für physiologische Chemie.
- J.* Jahresbericht der Chemie.
- J. pr.* Journal für praktische Chemie.
- J. r.* Journal der russischen physikalisch-chemischen Gesellschaft.
- J. Th.* Jahresbericht der Thierchemie.
- L. V. St.* Landwirthschaftliche Versuchsstationen.
- M.* Monatshefte für Chemie.
- P.* POGGENDORF's Annalen der Physik und Chemie.
- P. C. H.* Pharmaceutische Centralhalle.
- P. Ch. S.* Proceedings of the Chemical Society.
- Ph. Ch.* Zeitschrift für physikalische Chemie.
- R.* Recueil des travaux chimiques des Pays-Bas.
- R. A. L.* Atti della reale Accademia dei Lincei (RENDICONTI)
- Soc.* Journal of the chemical Society of London.
- W.* Annalen der Physik (WIEDEMANN).
- Z.* Zeitschrift für Chemie.
- Z. a. Ch.* Zeitschrift für anorganische Chemie.
- Z. Ang.* Zeitschrift für angewandte Chemie.
- Z. B.* Zeitschrift für Biologie.
- Z. El. Ch.* Zeitschrift für Elektrochemie.
- Z. Kr.* Zeitschrift für Krystallographie.

Abkürzungen. — Abbreviations. — Abréviations. — Abbreviazioni.

Anm.	Anmerkung	note	annotation	avvertenza
cor.	corrigirt	corrected	corrigé	corretto
d-	rechtsdrehend	dextrorotatory	destrogyre	destrogiro
f.	fest	solid	solide	solido
Fl.	flüssig	liquid	liquide	liquido
fum.	fumaroïd	fumaroid	fumaroïde	fumaroide
h.	hochschmelzend	high melting	fond à haute tempéra-	che fonde alto
i-	inactiv	inactive	inactif	[ture] inattivo
(i. D.)	im Dampf	in the vapour	dans la vapeur	nel vapore
isom.	isomer	isomeric	isomère	isomero
(i. V.)	im Vakuum	in a vacuum	dans le vide	nel vuoto
l-	linksdrehend	laevorotatory	lévogyre	levogiro
lab.	labil	unstable	instable	labile
m-	meta	meta	méta	meta
mal.	maleinoïd	malenoid	malénoïde	maleinoide
norm.	normal	normal	normal	normal
o-	ortho	ortho	ortho	orto
p-	para	para	para	para
R.	Ring (cyklo)	ring (cyclic)	noyau (cyclo)	anello (ciclo)
s.	symmetrisch	symmetrical	symétrique	simmetrico
Sd.	Siedepunkt	boiling point	point d'ébullition	punto di ebullizione
Sm.	Schmelzpunkt	melting point	point de fusion	punto di fusione
stab.	stabil	stable	stable	stabile
u. Zers.	unter Zersetzung	with decomposition	en se décomposant	con decomposizione
unc.	uncorrigirt	uncorrected	non corrigé	non corretto
uns.	unsymmetrisch	unsymmetrical	asymétrique	asimmetrico
Verb.	Verbindung	compound	combinaison	combinazione (com- [posto])

Häufiger vorkommende deutsche Ausdrücke.	Frequently occurring German Expressions.	Mots allemands souvent employés.	Vocaboli tedeschi pui frequentemente usati.
Base	base	base	base
Kohlenwasserstoff	hydrocarbon	hydrocarbure	idrocarburo
Lit. (Literatur) be- deutend	literature abundant	bibliographie consi- dérable	Letteratura ricca, copiosa
Säure	acid	acide	acido
Salze meist bek. (be- kannt)	most salts known	beaucoup de sels connus	i sali sono in gran parte noti
Verbindung aus	compound of	dérivé de	composto ottenuto da
aus	from	de	da
bei	at	à	a
oder	or	ou	o (oppure)
siehe auch	see also	à comparer	vedi anche
wasserfrei	anhydrous	anhydre	anidro

- 1) Ein „Stern“ vor der Ordnungsnummer bedeutet, dass die Verbindung schon im Stammwerk unter der gleichen Nummer beschrieben ist.
 2) Die mit einem „Stern“ versehene „Beilstein-Notiz“ bezieht sich auf die Ergänzungsbände.

C₁-Gruppe.

- CO₂ *1) Kohlensäure (*J. pr.* [2] 67, 423 *C. 1903* [1] 1387).
 CCl₄ *1) Tetrachlormethan (*G.* 33 [1] 77 *C. 1903* [1] 1109).
 CS *1) Kohlenstoffmonosulfid (*Soc.* 81, 1538 *C. 1903* [1] 7, 127; *Z. a. Ch.* 34, 187 *C. 1903* [1] 808; *B.* 36, 4336 *C. 1904* [1] 437).
 CMO *1) Kohlenstoffmolybdän (*B.* 37, 3324 *C. 1904* [2] 1022).

— 1 II —

- CHN *1) Cyanwasserstoffsäure (*C. 1903* [1] 494).
 CHCl₃ *1) Chloroform. Sm. — 63,2° (*C. 1904* [1] 1195).
 CHBr₃ *1) Bromoform (*C. 1904* [2] 301).
 CHJ₃ *1) Jodoform (*C. 1903* [1] 918; *1904* [1] 995).
 CH₂O *1) Aldehyd d. Ameisensäure. + HBr. (*C. 1903* [2] 709).
 CH₂O₂ *1) Ameisensäure. NH₄ (*M.* 23, 1034 *C. 1903* [1] 386; *B.* 36, 1783 *C. 1903* [2] 189; *C. r.* 136, 1465 *C. 1903* [2] 282; *B.* 36, 4351 *C. 1904* [1] 356).
 CH₂O₂ C 15,4 — H 2,6 — O 82,0 — M. G. 78.
 CH₂O₂ *1) Ueberkohlenensäure. Na₂ + 1½ H₂O, K₂ (*B.* 32, 1544 *C. 1903* [1] 494; *D. R. P.* 145746 *C. 1903* [2] 1034).
 CH₂N₂ *2) Diazomethan (*M.* 24, 364 *C. 1903* [2] 507).
 CH₂Br₂ *1) Dibrommethan (*M.* 24, 783 *C. 1904* [1] 157).
 CH₂S₃ *1) Trithiokohlensäure. Salze siehe (*B.* 36, 1146 *C. 1903* [1] 1176).
 CH₃F *1) Fluormethan. Sd. — 78° bei 742,5° (*Soc.* 85, 1317 *C. 1904* [2] 1281).
 CH₃As *1) Arsenmethyl. C₆H₁₂As₄? Sd. 190°₁₃ (*C. r.* 138, 1703 *C. 1904* [2] 415).
 CH₃N *2) polym. Arsenmethyl (*C. r.* 138, 1707 *C. 1904* [2] 415).
 CH₃N *1) Methylamin. (HCl, 2HgCl₂) (*J. pr.* [2] 66, 466 *C. 1903* [1] 561; *B.* 36, 3945 *C. 1904* [1] 352).
 CH₃N₃ *1) Guanidin. (HCl, 2CdCl₂) (*C. 1903* [2] 211; *B.* 36, 3024 *C. 1903* [2] 957; *H.* 43, 72 *C. 1904* [2] 1610).
 CH₃N₆ C 11,5 — H 7,7 — N 80,8 — M. G. 104.
 *1) Hydrazondihydrazidomethan (Triamidoguanidin). HCl (*B.* 37, 3548 *C. 1904* [2] 1379).
 CO₂N₄ *1) Tetranitromethan (*B.* 36, 2225 *C. 1903* [2] 421).
 CBr₄S₂ *1) Verbindung. (*C. 1903* [1] 19).

— 1 III —

- CHO₂N₃ *1) Trinitromethan. NH₄ (*B.* 36, 2227 *C. 1903* [2] 421; *G.* 33 [2] 323 *C. 1904* [1] 256).
 CHNS *1) Rhodanwasserstoffsäure. Salze siehe (*C. 1903* [2] 550; *Am.* 29, 474 *C. 1903* [1] 1307; *Am.* 30, 145 *C. 1903* [2] 715; *Am.* 30, 184 *C. 1903* [2] 873).
 CH₂O₂N₂ *1) Methylnitrolsäure. Sm. 68° u. Zers. (*G.* 33 [1] 510 *C. 1903* [2] 937).
 CH₂N₄N₂ *1) Dinitromethan. K, Phenylhydrazinsalz, Benzylaminsalz (*B.* 35, 4289 *C. 1903* [1] 279).

- CH_3ON *1) Formaldoxim (*B.* 35, 4301 *C.* 1903 [1] 280).
 *2) Amid d. Ameisensäure. (2HCl , PtCl_4) (*B.* 36, 154 *C.* 1903 [1] 444).
 CH_3OAs *1) Arsenmethoxyd. Sm. 95° (*C. r.* 137, 926 *C.* 1904 [1] 80).
 $\text{CH}_3\text{O}_2\text{N}$ *1) Nitromethan (*B.* 35, 4300 *C.* 1903 [1] 280; *B.* 36, 3297 *C.* 1903 [2] 1164).
 *4) Formhydroxamsäure (*B.* 35, 4299 *C.* 1903 [1] 280).
 $\text{CH}_3\text{Cl}_3\text{Sn}$ 1) Methylzinnchlorid. Sm. 43° (105—107°); Sd. 179—180° (*C.* 1903 [2] 106, 553; *B.* 36, 3027 *C.* 1903 [2] 938).
 $\text{CH}_3\text{Br}_3\text{Sn}$ 1) Methylzinnbromid. Sm. 50—55° (53°) (*C.* 1903 [2] 106, 553; *B.* 36, 1059 *C.* 1903 [1] 1120).
 $\text{CH}_3\text{J}_3\text{Sn}$ 1) Methylzinnjodid. Sm. 82—84° (86,5°) (*C.* 1903 [2] 106, 552; *B.* 36, 1058 *C.* 1903 [1] 1120).
 CH_4ON_2 *1) Harnstoff (*M.* 24, 218 *C.* 1903 [2] 57; *J. pr.* [2] 67, 274 *C.* 1903 [1] 1218; *B.* 36, 1926 *C.* 1903 [2] 193; *B.* 36, 3025 *C.* 1903 [2] 957; *Soc.* 83, 1391 *C.* 1904 [1] 160, 437; *B.* 37, 2293 *C.* 1904 [2] 186).
 $\text{CH}_4\text{O}_2\text{N}_2$ *4) Dinitromethylsäure (Nitrosomethylhydroxylamin). $\text{Cu} + \frac{1}{2}\text{H}_2\text{O}$ (*A.* 329, 193 *C.* 1903 [2] 1414).
 $\text{CH}_4\text{O}_2\text{Sn}$ *1) Zinnmethylsäure (Methylstannonsäure). (*C.* 1903 [2] 553; *B.* 36, 1060 *C.* 1903 [1] 1120).
 $\text{CH}_4\text{N}_2\text{S}$ *1) Thioharnstoff. 4 + Ammoniumthiocyanat (*Soc.* 83, 1 *C.* 1903 [1] 77, 447; *Z. a. Ch.* 34, 62 *C.* 1903 [1] 699; *B.* 36, 1151 *C.* 1903 [1] 1177; *B.* 36, 1928 *C.* 1903 [2] 193; *B.* 37, 242 *C.* 1904 [1] 651).
 $\text{CH}_4\text{O}_3\text{As}$ *1) Arsenmethylsäure (*C.* 1903 [1] 280; *C. r.* 139, 212 *C.* 1904 [2] 640).
 $\text{CO}_4\text{N}_2\text{Br}_2$ *1) Dibromdinitromethan (*B.* 35, 4291 *C.* 1903 [1] 279).

— 1 IV —

- $\text{CHO}_4\text{N}_2\text{Br}$ *1) Bromdinitromethan. K (*B.* 35, 4292 *C.* 1903 [1] 279).

— 1 V —

- $\text{CH}_4\text{ONCl}_3\text{P}$ 1) Methylmonamid d. Phosphorsäuredichlorid. Sd. 132°₃₇ (*A.* 326, 172 *C.* 1903 [1] 819).
 $\text{CH}_4\text{NCl}_3\text{SP}$ 1) Methylmonamid d. Thiophosphorsäuredichlorid. Sd. 115°₃₃ (*A.* 326, 201 *C.* 1903 [1] 821).

C₂-Gruppe.

- C_2H_7 *1) Aethin. Na (*C.* 1904 [2] 1024).
 C_2Cl_4 *1) Tetrachloräthan (*G.* 34 [1] 249 *C.* 1904 [1] 1481).
 C_2Cl_3 *1) Hexachloräthan (*C.* 1903 [2] 1052).
 C_2Br_2 1) Dibromäthin. Sd. 76—77° (*C. r.* 136, 1333 *C.* 1903 [2] 102; *C. r.* 137, 55 *C.* 1903 [2] 551).
 C_2Br_4 *1) Tetrabromäthan. Sm. 55—56° (*C. r.* 136, 1334 *C.* 1903 [2] 102).
 C_2Br_3 *1) Hexabromäthan (*C.* 1903 [2] 1053).
 C_2J_2 *1) Dijodäthin (*B.* 37, 3453 *C.* 1904 [2] 1281).
 C_2Cs_2 1) Kohlenstoffäcium (*C. r.* 136, 1220 *C.* 1903 [2] 105).
 C_2Rb_2 1) Kohlenstoffrubidium (*C. r.* 136, 1221 *C.* 1903 [2] 105).

— 2 II —

- C_2HCl_3 *1) Pentachloräthan (*G.* 34 [1] 249 *C.* 1904 [1] 1481).
 C_2HBr_5 *1) Pentabromäthan (*C.* 1904 [1] 715).
 $\text{C}_2\text{H}_3\text{O}_4$ *1) Oxalsäure. (NH_4 , HF), (K , HF), (Rb , HF) (*A.* 328, 151 *C.* 1903 [2] 987; *H.* 37, 225 *C.* 1903 [1] 593; *C.* 1903 [2] 657, 658, 1240, 1241; 1904 [1] 81, 359, 505).
 $\text{C}_2\text{H}_2\text{O}_3$ *1) Perkohlensäure. K₂ (*C.* 1904 [2] 13).
 $\text{C}_2\text{H}_2\text{Cl}_4$ *2) $\alpha\alpha\beta\beta$ -Tetrachloräthan (*D.R.P.* 154657 *C.* 1904 [2] 1177).
 $\text{C}_2\text{H}_3\text{N}$ *1) Nitril der Essigsäure (*B.* 35, 4298 *C.* 1903 [1] 280).
 $\text{C}_2\text{H}_4\text{O}$ *2) Aethylenoxyd (*B.* 36, 2017 *C.* 1903 [2] 338; *A.* 335, 200 *C.* 1904 [2] 1201).
 *4) Aldehyd d. Essigsäure (*Ph. Ch.* 43, 131 *C.* 1903 [1] 1078).
 $\text{C}_2\text{H}_4\text{O}_2$ *1) Essigsäure. $\text{NH}_4 + 4\text{AlCl}_3$ (*M.* 23, 1040 *C.* 1903 [1] 386; *Soc.* 85, 1108 *C.* 1904 [2] 976).

- $C_2H_4O_2$ *2) Aldehyd d. Oxyessigsäure (*H.* 38, 148 *C.* 1903 [1] 1426).
 *3) Diformaldehyd (*C.* 1904 [2] 586).
 $C_2H_4O_4$ *1) Glyoxylsäure. Salze siehe (*B.* 37, 3189 *C.* 1904 [2] 1108; *Soc.* 85, 1382 *C.* 1904 [2] 1705).
 $C_2H_4N_2$ *3) Nitril d. Amidessigsäure. H_2SO_4 , Pikrat (*B.* 36, 1511 *C.* 1903 [1] 1303; *B.* [3] 29, 1197 *C.* 1904 [1] 353).
 $C_2H_4N_4$ *1) Dicyandiamid (*C.* 1903 [2] 225).
 $C_2H_4Cl_2$ *1) $\alpha\alpha$ -Dichloräthan (*B.* 37, 2398 *C.* 1904 [2] 301).
 *2) $\alpha\beta$ -Dichloräthan (*B.* 37, 2398 *C.* 1904 [2] 301).
 $C_2H_4Br_2$ *2) $\alpha\beta$ -Dibromäthan (*G.* 33 [1] 77 *C.* 1903 [1] 1109).
 C_2H_5N *1) Amidoäthen (*C.* 1903 [2] 1165; *A.* 330, 280 *C.* 1904 [1] 999).
 C_2H_5As *1) Arsenäthyl (*C. r.* 138, 1707 *C.* 1904 [2] 416).
 C_2H_6O *2) Dimethyläther. Sm. $-117,6^\circ$. + $5HCl$ (*C.* 1904 [1] 1195; *Soc.* 85, 927 *C.* 1904 [2] 585).
 $C_2H_6O_2$ *1) $\alpha\beta$ -Dioxyäthan (*A.* 335, 200 *C.* 1904 [2] 1201).
 C_2H_6S *1) Merkaptoäthan (*G.* 33 [1] 77 *C.* 1903 [1] 1109).
 *2) Dimethylsulfid (*G.* 33 [1] 77 *C.* 1903 [1] 1109).
 C_2H_7N *1) Aethylamin (*B.* 36, 3945 *C.* 1904 [1] 352).
 *2) Dimethylamin. ($HCl + 3HgCl_2 + H_2O$) (*J. pr.* [2] 66, 467 *C.* 1903 [1] 561).
 $C_2H_8N_2$ *1) $\alpha\beta$ -Diamidoäthan. $4 + CdJ_2$, $3 + 2CdJ_2$, $2 + CdJ_2$ (*C. r.* 136, 688 *C.* 1903 [1] 919; *B.* 36, 3831 *C.* 1904 [1] 19; D.R.P. 147943 *C.* 1904 [1] 133).
 $C_2O_3Hg_3$ 1) Verbindung $+ 2\frac{1}{2}H_2O$ (aus d. Verb. $C_6H_6O_6Hg_3$). Explodiert bei 200° (*B.* 36, 3708 *C.* 1903 [2] 1240).
 C_2N_2S 2) Cyansenfö. Sd. 220° (*A.* 331, 289 *C.* 1904 [2] 31).
 $C_2Cl_4Br_2$ *1) $\alpha\alpha\alpha\beta$ -Tetrachlor- $\beta\beta$ -Dibromäthan (*C.* 1903 [2] 1053).
 *2) $\alpha\alpha\beta\beta$ -Tetrachlor- $\alpha\beta$ -Dibromäthan (*C.* 1903 [2] 1053).
 $C_2Cl_4F_2$ 1) $\alpha\beta\beta\beta$ -Tetrachlor- $\alpha\alpha$ -Difluoräthan. Sm. 52° ; Sd. 91° (*C.* 1903 [1] 13).
 $C_2Br_4J_2$ 2) $\alpha\beta$ -Dibrom- $\alpha\beta$ -Dijodäthen. Sm. $95-96^\circ$ (*C. r.* 136, 1334 *C.* 1903 [2] 102).

— 2 III —

- C_2HOCl_3 *5) Chloralhydrat (*Soc.* 85 1376 *C.* 1904 [2] 1597).
 7) polym. Chloral (D.R.P. 139392 *C.* 1903 [1] 743).
 $C_2HO_2Cl_3$ *1) Trichloressigsäure. Pyridinsalz, Chinolinsalz (*A.* 326, 313 *C.* 1903 [1] 1088; *C.* 1903 [2] 1238; 1904 [1] 1642, 1643).
 $C_2HO_2Br_3$ *1) Tribromessigsäure. Derivate siehe (*C.* 1903 [2] 1238; 1904 [1] 1642).
 C_2HCl_3F 1) $\beta\beta$ -Dichlor- α -Fluoräthen. Sd. $37,5^\circ$ (*C.* 1903 [1] 13).
 $C_2HCl_3F_3$ 1) Dichlortrifluoräthan. Sd. $25-30^\circ$ (*C.* 1903 [1] 13).
 $C_2HCl_3F_2$ 1) Trichlordifluoräthan. Sd. $70-72^\circ$ (*C.* 1903 [1] 13).
 C_2HCl_3F 1) $\alpha\beta\beta\beta$ -Tetrachlor- α -Fluoräthan. Sd. $116,5^\circ$ (*C.* 1903 [1] 13).
 C_2HBrMg 1) Acetylenmagnesiumbromid (*C.* 1904 [2] 943).
 $C_2H_2O_2N_2$ *5) polym. Nitril d. Nitroessigsäure. Sm. 216° (*C.* 1904 [2] 1537).
 $C_2H_2O_2Cl_2$ *1) Dichloressigsäure. Pyridinsalz, Chinolinsalz, Strychninsalz (*A.* 326, 319 *C.* 1903 [1] 1088).
 $C_2H_2O_2F_2$ *1) Difluoressigsäure. Sd. $134,2^\circ_{760}$. Na, Ca, Ba, Pb, Hg, Ag (*C.* 1903 [2] 709).
 $C_2H_2O_2S_2$ 1) Dithioloxalsäure. Na₂ (*C. r.* 136, 555 *C.* 1903 [1] 816).
 $C_2H_2O_2N_4$ *1) $\alpha\alpha\beta\beta$ -Tetranitroäthan. K₂ (*B.* 35, 4288 *C.* 1903 [1] 279).
 $C_2H_2N_2S_2$ 1, 2, 3-Thiodiazol. Sd. 157°_{743} . HCl , $(HCl, AuCl_3)$, $+ AuCl_3$ (*A.* 333, 19 *C.* 1904 [2] 781).
 $C_2H_2N_2S_2$ *1) α -Cyanimido- $\alpha\alpha$ -Dimerkaptomethan (Dithiocyansäure). K₂ (*A.* 331, 283 *C.* 1904 [2] 31).
 $C_2H_2N_2S_3$ *3) Isopersulfocycyansäure (*A.* 331, 290 *C.* 1904 [2] 31).
 4) 5-Imido-3-Thiocarbonyl-4,5-Dihydro-1,2,4-Dithioazol (Xanthanwasserstoff) (*A.* 331, 294 *C.* 1904 [2] 32).
 C_2H_3ClF 1) β Chlor- α -Fluoräthen. Sd. $10-11^\circ$ (*C.* 1903 [1] 13).
 $C_2H_3ClF_3$ 1) α -Chlor- $\alpha\beta\beta$ -Trifluoräthan. Sd. 17° (*C.* 1903 [1] 13).
 $C_2H_3Cl_2F_2$ 1) $\beta\beta$ -Dichlor- $\alpha\alpha$ -Difluoräthan. Sd. 60° (*C.* 1903 [1] 13).
 $C_2H_3Cl_3F$ 1) $\alpha\beta\beta$ -Trichlor- α -Fluoräthan. Sd. 103° (*C.* 1903 [1] 13).
 C_2H_3OCl *5) Chlorid d. Essigsäure (D.R.P. 151864 *C.* 1904 [2] 69).
 $C_2H_3O_2N_3$ *1) Urazol. Sm. 243° (*B.* 36, 745 *C.* 1903 [1] 827).

- $C_2H_3O_3N$ *1) Oximidoessigsäure. Sm. 143—144° u. Zers. (Bl. [3] 31, 677 C. 1904 [2] 195).
- *2) Oxaminsäure. Sm. 210°. NH_4 , Ag, Methylaminsalz (Soc. 83, 22 C. 1903 [1] 448; B. 37, 2930 C. 1904 [2] 1241).
- 3) Gem. Anhydrid d. Salpetrigensäure u. Essigsäure (Nitrosoacetanhydrid). Fl. (C. 1903 [2] 656; G. 34 [1] 439 C. 1904 [2] 511). C 19,8 — H 2,5 — O 66,1 — N 11,6 — M. G. 121.
- $C_2H_3O_3N$ 1) Nitrat d. Oxyessigsäure. Sm. 54,5° (Bl. [3] 29, 602 C. 1903 [2] 342).
- $C_2H_3NCl_2$ 1) $\alpha\beta$ -Dichlor- α -Imidoäthan (J. pr. [2] 69, 352 C. 1904 [2] 510).
- $C_2H_3ClF_2$ 1) β -Chlor- $\alpha\alpha$ -Difluoräthan. Sd. 36° (C. 1903 [1] 438).
- $C_2H_4OCl_2$ *2) s-Dichlormethyläther (A. 330, 112 C. 1904 [1] 1063; C. r. 138, 1110 C. 1904 [1] 1642; A. 334, 15 C. 1904 [2] 947).
- $C_2H_4OF_2$ 1) $\beta\beta$ -Difluor- α -Oxyäthan. Sm. —28,2°; Sd. 95,5—96°. Na (C. 1903 [1] 436; 1903 [2] 486).
- $C_2H_4O_3N_2$ *1) $\alpha\beta$ -Dioximidoäthan. Sm. 178,5° (B. 36, 3831 C. 1904 [1] 19).
- $C_2H_4O_2Cl_2$ *1) $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. Sm. 55—56°; Sd. 96—97,5° (G. 33 [2] 395 C. 1904 [1] 921).
- $C_2H_4O_2S$ *1) Merkaptoessigsäure. Salze (Z. a. Ch. 41, 235 C. 1904 [2] 1107).
- $C_2H_4O_3N_2$ *1) Aethylnitrolsäure. Sm. 87—88° u. Zers. (G. 33 [1] 510 C. 1903 [2] 937).
- *5) Methazonsäure. Ag. (M. 25, 719 C. 1904 [2] 1110).
- *11) Hydroxyloxamid (A. 326, 259 C. 1903 [1] 736).
- 12) Amid d. Nitroessigsäure. Zers. bei 97—98°. NH_4 , Ag (M. 25, 708 C. 1904 [2] 1110).
- 13) Amid d. Oximidoxyessigsäure. Ag (Soc. 81, 1565 C. 1903 [1] 157).
- $C_2H_4O_5Cr$ 1) Gem. Anhydrid d. Essigsäure u. Chromsäure. (Acetylchromsäure (B. 34, 2216 C. 1903 [2] 419).
- 2) Dimerkaptomethylenthioharnstoff? K_2 (A. 331, 288 C. 1904 [2] 31).
- $C_2H_4N_3S_3$ *1) Acetaldoxim (B. 35, 4298 C. 1903 [1] 280).
- C_2H_5ON *3) Aldehyd d. Amidoessigsäure. (2HCl, PtCl₄) (B. 37, 613 C. 1904 [1] 924).
- *4) Amid d. Essigsäure. HBr, HJ (B. 36, 154 C. 1903 [1] 444).
- C_2H_5OCl *3) Chlordimethyläther. Sd. 60° (B. 36, 1384 C. 1903 [1] 1295; A. 334, 49 C. 1904 [2] 948).
- $C_2H_5O_2N$ *1) Nitroäthan (B. 35, 4297 C. 1903 [1] 280).
- *3) Acethydroxamsäure (B. 35, 4295 C. 1903 [1] 280; B. 36, 817 C. 1903 [1] 1017).
- *6) Amidoessigsäure (D.R.P. 141976 C. 1903 [1] 1381; H. 39, 464 C. 1903 [2] 961).
- *7) Methylester d. Amidoameisensäure. Sm. 57—58° (B. 36, 2475 C. 1903 [2] 559).
- *8) Amid d. Oxyessigsäure. Sm. 120° (B. 37, 2636 Anm. C. 1904 [2] 518).
- $C_2H_5O_3N_3$ *2) Biuret. 2 + CdCl₂ (H. 43, 72 C. 1904 [2] 1610).
- $C_2H_5O_3N$ 6) β -Oximido- $\alpha\beta$ -Dioxyäthan (Glykolhydroxamsäure). Cu (G. 34 [2] 73 C. 1904 [2] 734).
- 2) Aethylenester d. Phosphorsäure (C. r. 138, 375 C. 1904 [1] 786).
- $C_2H_5O_4P$ 1) $\beta\beta$ -Difluor- α -Amidoäthan. Sd. 67,5—67,8°₇₅₇. HCl, (2HCl, PtCl₄), H₂SO₄, Oxalat (C. 1904 [2] 944).
- $C_2H_5NF_2$ 1) $\beta\beta$ -Difluor- α -Amidoäthan. Sd. 67,5—67,8°₇₅₇. HCl, (2HCl, PtCl₄), H₂SO₄, Oxalat (C. 1904 [2] 944).
- $C_2H_5NS_2$ *1) Methylester d. Amidodithioameisensäure. Sm. 40—42° (C. r. 135, 975 C. 1903 [1] 139).
- C_2H_5ClSi *1) Siliciumäthyltrichlorid (C. 1904 [1] 636).
- C_2H_5JZn *1) Zinkäthyljodid (C. 1903 [2] 339).
- $C_2H_5J_3As$ *1) Antimonäthyljodid. Sm. 43° (C. r. 139, 599 C. 1904 [2] 1451).
- $C_2H_5ON_2$ *5) Amid d. Amidoessigsäure (A. 327, 368 C. 1903 [2] 660).
- *6) Hydrazid d. Essigsäure. Sd. 129°₁₈ (J. pr. [2] 69, 145 C. 1904 [1] 1274).
- C_2H_5OSn *1) Zinntrimethylxyd (C. 1903 [2] 553; B. 36, 3030 C. 1903 [2] 938).
- $C_2H_6O_2N_4$ *2) Amid d. Hydrazodicarbonsäure. Sm. 257° (246°) (B. 35, 4215 C. 1903 [1] 161; G. 33 [1] 322 C. 1903 [2] 281; B. 36, 4379 C. 1904 [1] 454).
- *4) Dihydrazid d. Oxalsäure. Sm. 241° u. Zers. (B. 37, 2202 C. 1904 [2] 323).
- $C_2H_6O_2S$ *1) Aethansulfinsäure. Mg + 2H₂O (B. 37, 2153 C. 1904 [2] 186).
- *2) Dimethylsulfon. Sm. 110° (B. 37, 3550 C. 1904 [2] 1377).

- $C_2H_6O_8S$ *1) Aethansulfonsäure. Aethylaminsalz (*B.* 37, 3803 *C.* 1904 [2] 1564).
 $C_2H_6O_8S$ *2) Dimethylester d. Schwefelsäure (*A.* 327, 105 *C.* 1903 [1] 1213).
 $C_2H_6O_8S_2$ *1) Aethan- α -Disulfonsäure. $(NH_4)_2$ (*B.* 37, 3808 *C.* 1904 [2] 1564).
 C_2H_6NBBr *2) Aethan- α - β -Disulfonsäure. $(NH_4)_2$ (*B.* 37, 3806 *C.* 1904 [2] 1564).
 $C_2H_6N_2S$ 2) Dimethylbromamin. *Sd.* 64—66° (*B.* 37, 1783 *C.* 1904 [1] 1483).
 $C_2H_6N_2S$ 2) Methyläther d. Amidoimidomerkaptomethan (Methylpseudothioharnstoff). *HCl*, *HJ*, Chloracetat (*Soc.* 83, 567 *C.* 1903 [1] 1123; *Am.* 29, 482, 492 *C.* 1903 [1] 1309).
 C_2H_6ClTI 1) Thalliumdimethylchlorid. *Zers.* oberh. 280° (*B.* 37, 2057 *C.* 1904 [2] 20).
 C_2H_6BrTI 1) Thalliumdimethylbromid. *Zers.* oberh. 275° (*B.* 37, 2055 *C.* 1904 [2] 20).
 $C_2H_6Br_2Sn$ *1) Zinnmethylbromid. *Sm.* 74° (*B.* 36, 1058 *C.* 1903 [1] 1120).
 C_2H_6JTI 1) Thalliumdimethyljodid. *Zers.* bei 264—266° (*B.* 37, 2056 *C.* 1904 [2] 20).
 $C_2H_6J_2Sn$ *1) Zinnmethyljodid. *Sm.* 32° (*B.* 36, 1058 *C.* 1903 [1] 1120).
 $C_2H_6S_2Sn_2$ 1) Methylzinsulfid (*B.* 36, 3029 *C.* 1903 [2] 938).
 $C_2H_7ON_3$ 2) Hydrazid d. Imidoessigsäure. *Sm.* 80—85°. *HCl* (*J. pr.* [2] 70, 102 *C.* 1904 [2] 1035).
 $C_2H_7O_2N_5$ *C* 18,0 — *H* 5,3 — *O* 24,1 — *N* 52,6 — *M. G.* 133.
 $C_2H_7O_2As$ 1) Dihydrazid d. Imidodiameisensäure. *Sm.* 199—200° u. *Zers.* (*B.* 36, 744 *C.* 1903 [1] 827).
 $C_2H_7O_2As$ *1) Kakodylsäure (*B.* 36, 3325 *C.* 1903 [2] 1165; *B.* 37, 153 *C.* 1904 [1] 578; *B.* 37, 1076 *C.* 1904 [1] 1327; *B.* 37, 2289 *C.* 1904 [2] 186; *B.* 37, 2705 *C.* 1904 [2] 416; *B.* 37, 3625 *C.* 1904 [2] 1451).
 $C_2H_7O_4P$ *1) Aethylphosphorsäure (*C. r.* 138, 762 *C.* 1904 [1] 1196).
 $C_2H_7O_4P$ *3) α -Oxyäthylphosphinsäure (*C. r.* 136, 48 *C.* 1903 [1] 439).
 $C_2H_7O_4P$ 1) Mono[β -Oxyäthylester] d. Phosphorsäure. *Ba* + H_2O , Chininsalz (*C. r.* 138, 375 *C.* 1904 [1] 786).
 C_2H_7STI 1) Thalliumdimethylsulfhydrat (*B.* 37, 2056 *C.* 1904 [2] 20).
 $C_2H_7O_4As$ 1) Dimethylpyroarsinsäure. Na_3 (*C. r.* 139, 411 *C.* 1904 [2] 764).
 $C_2H_7O_6P_2$ 2) Verbindung (aus d. Verb. $C_4H_{10}O_6P_2$) (*C. r.* 136, 757 *C.* 1903 [1] 1017).
 $C_2H_7O_6P_2$ 1) Säure (aus Chlorophyllpflanzen). (Na_4 , Ca_2 + $8H_2O$) (*C. r.* 137, 338 *C.* 1903 [2] 728; *C. r.* 137, 439 *C.* 1903 [2] 797; *H.* 40, 121 *C.* 1904 [1] 191; *Am.* 31, 569 *C.* 1904 [2] 47).

— 2 IV —

- C_2HOClF_2 1) Chlorid d. Difluoressigsäure. *Sd.* 25° (*C.* 1903 [2] 710).
 C_2HOCl_2F 1) Fluorid d. Dichloressigsäure. *Sd.* 70,5° (*C.* 1903 [1] 13).
 C_2HOBr_2F *1) Bromid d. Bromfluoressigsäure. *Sd.* 112,5° (*C.* 1903 [1] 12).
 $C_2HO_2Cl_6P$ 1) Verbindung (aus Chloral u. Phosphorpentachlorid). *Sd.* 238—242° (*G.* 34 [1] 250 *C.* 1904 [1] 1481).
 $C_2HO_3BrF_2$ 1) Bromdifluoressigsäure? *Sm.* 40°; *Sd.* 145—160° (*C.* 1903 [2] 710).
 $C_2HCl_2Br_2F$ 1) β -Dichlor- α - β -Dibrom- α -Fluoräthan. *Sd.* 163,5° (*C.* 1903 [1] 13).
 $C_2H_2O_2BrF$ 1) Bromfluoressigsäure. *Sm.* 49°; *Sd.* 183°. NH_4 , *Na*, *K*, *Pb*, *Zn* (*C.* 1903 [1] 12).
 $C_2H_2O_3JF$ 1) Jodfluoressigsäure. *Sm.* 74° (*C.* 1903 [1] 13).
 $C_2H_2O_3N_2Br_2$ 1) Amid d. Dibromnitroessigsäure (*M.* 25, 723 *C.* 1904 [2] 1110).
 $C_2H_5ONCl_2$ 3) Chloramid d. Chloressigsäure. *Sm.* 68—69° (*G.* 33 [1] 231 *C.* 1903 [2] 24).
 $C_2H_5ONJ_2$ *1) Amid d. Dijodessigsäure. *Sm.* 201—202° u. *Zers.* (*B.* 37, 1787 *C.* 1904 [1] 1484).
 $C_2H_5ONF_2$ 1) Amid d. Difluoressigsäure. *Sm.* 50,2° (*C.* 1903 [2] 710).
 $C_2H_5O_2BrHg$ *1) Quecksilberbromidessigsäure. *Sm.* 198° (*A.* 329, 189 *C.* 1903 [2] 1414).
 $C_2H_5O_3NS$ 2) Methylsulfonisocycansäure. *Sm.* 31°; *Sd.* 73,5—75°₁₂ (*B.* 36, 3214 *C.* 1903 [2] 1055).
 $C_2H_5O_3N_2Br$ 2) Amid d. Bromnitroessigsäure. *Sm.* 80—81° (79°). NH_4 (*B.* 37, 1786 *C.* 1904 [1] 1483; *M.* 25, 728 *C.* 1904 [2] 1111).
 C_2H_4ONCl *2) Amid d. Chloressigsäure. *Hg* (*G.* 33 [1] 229 *C.* 1903 [2] 24).
 $C_2H_4OCl_3P$ 1) β -Chloräthyläther d. Dichloroxyphosphin (*C. r.* 136, 756 *C.* 1903 [1] 1017).

- $C_2H_4O_2NCl$ *3) Nitrit d. β -Chlor- α -Oxyäthan. Sd. 95—96°₇₆₄ (C. 1903 [1] 436).
 4) β -Chlor- α -Oximido- α -Oxyäthan (Chloracethydroxamsäure). Sm. 108°
 u. Zers. (G. 34 [1] 430 C. 1904 [2] 511).
 $C_2H_4O_2N_2F_2$ 1) β -Difluor- α -Nitramidoäthan. Sm. 22,4°; Sd. 111—112°₁₂. NH_4 , Na
 (C. 1904 [2] 945).
 $C_2H_5O_2Cl_2P$ 2) β -Chloräthyläther d. Chlordioxyphosphin (C. r. 136, 757 C. 1903
 [1] 1017).
 $C_2H_5O_3ClS$ *4) Chlorid d. Aethylschwefelsäure. Sd. 58°₂₀ (Am. 30, 213 C. 1903
 [2] 936).
 $C_2H_5O_3ClP$ 1) β -Chloräthyläther d. Trioxyphosphin (C. r. 136, 757 C. 1903 [1] 1017).
 $C_2H_6NCl_2P$ 1) Aethylamidodichlorphosphin. Sd. 222—225° (A. 326, 150 C. 1903
 [1] 760).
 $C_2H_6NCl_1P$ 1) Dimethylamidophosphortetrachlorid. + PCl_5 (A. 326, 160 C. 1903
 [1] 761).

— 2 V —

- $C_2HOClBrF$ 1) Chlorid d. Bromfluoressigsäure. Sd. 98°₇₆₅ (C. 1903 [1] 12).
 $C_2H_3ONClBr$ 2) Bromamid d. Chloressigsäure. Sm. 61—63° (G. 33 [1] 229 C. 1903
 [2] 24).
 C_2H_3ONClJ 1) Amid d. Chlorjodessigsäure. Sm. 140—141° (B. 37, 1786 C. 1904
 [1] 1484).
 C_2H_3ONBrF 1) Amid d. Bromfluoressigsäure. Sm. 44° (C. 1903 [1] 12).
 C_2H_3ONJF 1) Amid d. Jodfluoressigsäure. Sm. 92,5° (C. 1903 [1] 13).
 $C_2H_5ONCl_2P$ 1) Dimethylmonamid d. Phosphorsäuredichlorid. Sd. 194—195°
 (A. 326, 179 C. 1903 [1] 819).
 2) Aethylmonamid d. Phosphorsäuredichlorid. Sd. 140°₂₂ (A. 326,
 172 C. 1903 [1] 819).
 $C_2H_6NCl_2SP$ 1) Dimethylmonamid d. Thiophosphorsäuredichlorid. Sd. 85 bis
 90°₁₆ (A. 326, 210 C. 1903 [1] 822).
 2) Aethylmonamid d. Thiophosphorsäuredichlorid. Sd. 216° (A.
 326, 202 C. 1903 [1] 821).

C₃-Gruppe.

- C_3H_6 *1) Propylen (B. 36, 1997 C. 1903 [2] 335).
 *2) R-Trimethylen (B. 36, 2014 C. 1903 [2] 337).

— 3 II —

- C_3H_2O *1) Aldehyd d. Aethincarbonsäure (B. 36, 3664 C. 1903 [2] 1312).
 $C_3H_4O_3$ *3) Brenztraubensäure. Ba, Pb, $(NH_4 + NH_4.HSO_3)$, $(NH_4.HSO_3)$ (R.
 21, 299 C. 1903 [1] 17; H. 42, 121 C. 1904 [2] 664).
 11) Methylester d. Glyoxylsäure. Sm. 53° (B. 37, 3592 C. 1904 [2] 1378).
 $C_3H_4O_4$ *1) Malonsäure (C. 1903 [2] 712; C. r. 135, 1351 C. 1903 [1] 320; C.
 1904 [1] 505).
 $C_3H_4N_2$ *2) Imidazol. Benzoat (B. 37, 3115 C. 1904 [2] 1316).
 *3) Nitril d. Methylenamidoessigsäure. Sm. 129° (B. 36, 1507 C. 1903
 [1] 1302).
 *4) isom. Nitril d. Methylenamidoessigsäure. Sm. 86° (B. 36, 1508
 C. 1903 [1] 1302).
 C_3H_7N *3) Nitril d. Propionsäure (G. 33 [1] 77 C. 1903 [1] 1109).
 $C_3H_5N_3$ *3) 4-Amidopyrazol. Sm. 80—82°. 2HCl, 2HNO₃, 2 Pikrat, Pikrolonat
 (B. 37, 3520 C. 1904 [2] 1313).
 5) 3- oder 5-Amidopyrazol. Sd. 282°₇₅₃ (B. 37, 3522 C. 1904 [2] 1314).
 C_3H_6O *3) α - β -Propylenoxyd (B. 36, 2017 C. 1903 [2] 338; A. 335, 201 C. 1904
 [2] 1201).
 *7) Aceton. 2 + 5HCl, + HBr, 2 + HJ (Soc. 85, 924 C. 1904 [2] 585).
 11) Porinin. = $(C_3H_6O)_x$. Sm. 70—71° (J. pr. [2] 68, 63 C. 1903 [2] 513).
 $C_3H_6O_2$ *2) Acetol (C. r. 135, 970 C. 1903 [1] 132; A. 335, 247 C. 1904 [2] 1253).
 *3) Glycid. Sd. 62°₁₅ (A. 335, 231 C. 1904 [2] 1204).
 *4) Propionsäure. NH_4 (G. 33 [1] 77 C. 1903 [1] 1109; M. 23, 1053
 C. 1903 [1] 386).
 *6) Methylester d. Essigsäure (B. 37, 3659 C. 1904 [2] 1452).

- $C_3H_6O_2$ 7) Aldehyd d. β -Oxypropionsäure. Sd. 90°_{18} (A. 335, 219 C. 1904 [2] 1203).
- $C_3H_6O_3$ *1) Dioxyacetone (C. 1904 [2] 1291).
 *2) Trioxymethylen (Bl. [3] 27, 1212 C. 1903 [1] 224; Bl. [3] 29, 87 C. 1903 [1] 501).
 *4) l-Milchsäure (D.R.P. 140319 C. 1903 [1] 1106; Ar. 241, 421 C. 1903 [2] 1027; C. r. 139, 204 C. 1904 [2] 641).
 *5) d-Milchsäure (H. 37, 203 C. 1903 [1] 593; C. r. 139, 204 C. 1904 [2] 641).
 *6) l-Milchsäure (Soc. 83, 259 C. 1903 [1] 564, 869; C. r. 139, 204 C. 1904 [2] 641).
- $C_3H_6O_4$ *1) r- α -Dioxypropionsäure (H. 42, 61 C. 1904 [2] 608).
 *3) d- α -Dioxypropionsäure. Ba (B. 37, 340 C. 1904 [1] 645).
 4) l- α -Dioxypropionsäure. Ba (B. 16, 2720; B. 37, 339 C. 1904 [1] 645). — I, 623.
- $C_3H_6N_2$ *2) Nitril d. i- α -Amidopropionsäure. HCl, (2HCl, PtCl₄), H₂SO₄, Pikrat, Tartrat (Bl. [3] 29, 1197 C. 1904 [1] 353; Bl. [3] 29, 1180 C. 1904 [1] 353; Bl. [3] 29, 1190 C. 1904 [1] 360).
 *3) Nitril d. Methylamidoessigsäure. H₂SO₄ (Bl. [3] 29, 1199 C. 1904 [1] 354).
 6) Nitril d. d- α -Amidopropionsäure. H₂SO₄, Tartrat (Bl. [3] 29, 1195 C. 1904 [1] 361).
 7) Nitril d. l- α -Amidopropionsäure. H₂SO₄, Tartrat (Bl. [3] 29, 1195 C. 1904 [1] 361).
- $C_3H_6N_4$ *1) 3,5-Diamidopyrazol (B. 37, 3524 C. 1904 [2] 1314).
 3) 1-Amido-5-Methyl-1,2,3-Triazol. Sm. 70° . HCl (B. 36, 3617 C. 1903 [2] 1381).
- $C_3H_8S_3$ *1) Trimethylensulfid. Sm. 216° (C. 1904 [2] 21).
- C_3H_8O *1) α -Oxypropan. + 5HCl, + 2HBr, + 2HJ (C. r. 137, 302 C. 1903 [2] 708; Soc. 85, 928 C. 1904 [2] 585).
 *2) β -Oxypropan (C. r. 137, 302 C. 1903 [2] 708).
- $C_3H_8O_2$ *1) $\alpha\beta$ -Dioxypropan (A. 335, 201 C. 1904 [2] 1201).
 *2) $\alpha\gamma$ -Dioxypropan (M. 25, 267 C. 1904 [1] 1401; A. 335, 206 C. 1904 [2] 1202).
- $C_3H_8O_3$ *1) $\alpha\beta\gamma$ -Trioxypropan. Na (A. 335, 209 C. 1904 [2] 1202; A. 335, 279 C. 1904 [2] 1284).
- C_3H_8S *3) Methyläthylsulfid (G. 33 [1] 77 C. 1903 [1] 1109).
- C_3H_8N *1) α -Amidopropan. (2HCl, SnCl₄) (C. 1904 [1] 923).
 *2) Isopropylamin (B. 36, 703 C. 1903 [1] 818).
 *4) Trimethylamin. (HCl + 6HgCl₂ + H₂O) (J. pr. [2] 66, 468 C. 1903 [1] 561; A. 334, 229 C. 1904 [2] 900).
- C_3H_8P 3) Propylphosphin. Sd. $53-53,5^\circ$ (A. 241, 411 C. 1903 [2] 987).
- $C_3H_{10}N_2$ *1) $\alpha\beta$ -Diamidopropan. (2HCl, PtCl₄) (B. 36, 1063 C. 1903 [1] 1174; J. pr. [2] 70, 217 C. 1904 [2] 1460).
 *2) $\alpha\gamma$ -Diamidopropan. 2HCl (B. 36, 334 C. 1903 [1] 702).
 4) Propylhydrazin. HCl (J. pr. [2] 70, 250 C. 1904 [2] 1545).
- 3 III —
- C_3HOBr_5 *1) Pentabromaceton. Sm. 74° (R. 22, 288 C. 1903 [2] 108).
- $C_3H_2OBr_4$ *1) $\alpha\alpha\alpha\gamma$ -Tetrabrom- β -Ketopropan + 4H₂O. Sm. 62° (37–38° wasserfrei) (R. 22, 286 C. 1903 [2] 108).
- $C_3H_2O_2Cl_4$ 2) Chlormethylester d. Trichloressigsäure. Sd. 170° u. Zers. (C. r. 136, 1566 C. 1903 [2] 342).
- $C_3H_2O_3N_2$ *1) Parabansäure. Sm. $242-244^\circ$ u. Zers. (A. 333, 115 C. 1904 [2] 893).
- C_3H_3ON 3) Isoxazol. Sd. $95-95,5^\circ_{760}$. + CdCl₂, 2 + PtCl₄ (B. 36, 3665 C. 1903 [2] 1312).
- $C_3H_3O_3N$ *7) Acetylisoocycansäure. Sd. $80-80,3^\circ$ (B. 36, 3216 C. 1903 [2] 1055).
- 8) Nitril d. Formoxyllessigsäure. Sd. $172-173^\circ_{750}$ (C. 1904 [2] 1377).
- $C_3H_3O_3N_2$ 1) Verbindung (aus Nitromalonsäureamid) = (C₃H₃O₃N₂)_x. Ag (M. 25, 121 C. 1904 [1] 1553).
- $C_3H_3O_3N_3$ *5) Fulminursäure. Sm. $136-149^\circ$ (Am. 29, 262 C. 1903 [1] 957).
 13) Nitril d. α -Nitro- β -Oximidopropionsäure. Sm. $143-144^\circ$ (Am. 29, 266 C. 1903 [1] 958).

- $C_3H_3O_3N_3$ *1) 1-Nitro-2,4-Diketotetrahydroimidazol. Sm. 170° (A. 327, 373 C. 1903 [2] 660).
- $C_3H_3N_3J$ *1) 4-Jodpyrazol. Sm. 108,5° (B. 37, 3522 C. 1904 [2] 1314).
- $C_3H_3ON_2$ *5) Amid d. Cyanessigsäure. Sm. 123—124° (C. 1903 [2] 192).
- *8) 4-Oxypyrazol. HCl (A. 335, 109 C. 1904 [2] 1232).
- 10) Verbindung (aus Epinephrin). (HCl, JCl), (HCl, AuCl₃) (B. 37, 370 C. 1904 [1] 677).
- $C_3H_4OCl_2$ *4) $\alpha\gamma$ -Dichlor- β -Ketopropan. Sm. 42,5°; Sd. 172° (C. 1904 [1] 576).
- $C_3H_4OCl_4$ 2) Chlormethyläther d. $\alpha\beta\beta$ -Trichlor- α -Oxyäthan. Sd. 174—176° (A. 330, 129 C. 1904 [1] 1064).
- $C_3H_4O_2N_2$ *2) Hydantoïn. Sm. 217—220°. Na, K (Am. 28, 390 C. 1903 [1] 90; A. 327, 355, 369 C. 1903 [2] 660; A. 333, 109 C. 1904 [2] 893).
- $C_3H_4O_2Cl_2$ 9) Chlormethylester d. Chloressigsäure. Sd. 155—160° (C. r. 136, 1565 C. 1903 [2] 342).
- $C_3H_4O_2Br_2$ 6) isom. Dibrompropionsäure? Sm. 61° (C. 1904 [2] 665).
- $C_3H_4O_2S_2$ 1) Dithiolmalonsäure. Na₂ (C. r. 136, 556 C. 1903 [1] 816).
- $C_3H_4O_4N_2$ *3) Oxalursäure (H. 37, 225 C. 1903 [1] 593).
- 6) Verbindung (aus d. Amid d. Nitromalonsäure). Zers. bei 140—141° Ag, Ag₂ (M. 25, 84 C. 1904 [1] 1552).
- 7) isom. Verbindung (aus d. Amid d. Nitromalonsäure). Zers. bei 142—143°. Ag + H₂O (M. 25, 85 C. 1904 [1] 1552).
- $C_3H_4O_5N_2$ C 18,4 — H 2,0 — O 65,3 — N 14,3 — M. G. 196.
- 1) Dintrat d. $\alpha\beta$ -Dioxypropionsäure. Zers. bei 117° (C. r. 137, 573 C. 1903 [2] 1111).
- $C_3H_4N_2S$ 3) 5-Methyl-1,2,3-Thiadiazol. Sd. 91°₃₈ (184°₇₅₅). + AuCl₃ (A. 325, 177 C. 1903 [1] 646; A. 333, 15 C. 1904 [2] 781).
- $C_3H_5ON_3$ 6) Nitril d. Ureidoessigsäure. Sm. 139° (Am. 28, 391 C. 1903 [1] 90).
- $C_3H_5OCl_3$ *1) $\alpha\alpha\alpha$ -Trichlor- β -Oxypropan. Sm. 50—51°; Sd. 161,8°₇₇₃ (C. r. 138, 205 C. 1904 [1] 636; D.R.P. 151545 C. 1904 [1] 1586).
- 2) Chlormethyläther d. $\alpha\beta$ -Dichlor- α -Oxyäthan. Sd. 144—148° (A. 330, 128 C. 1904 [1] 1064).
- C_3H_5OBr *5) Aldehyd d. β -Brompropionsäure. Sd. 40—45°₁₃ (A. 335, 263 C. 1904 [2] 1283).
- 7) Aldehyd d. r - α -Brompropionsäure. Sd. 42—44°₆₃ (A. 335, 264 C. 1904 [2] 1283).
- C_3H_5OJ 6) Aldehyd d. r - α -Jodpropionsäure. Sd. 40°₁₅ (A. 335, 266 C. 1904 [2] 1283).
- $C_3H_5O_2N$ *4) 2-Ketotetrahydrooxazol. Sm. 90°; Sd. 200°₂₁ (B. 36, 1281 C. 1903 [1] 1215).
- $C_3H_5O_2N_3$ 4) Äthylester d. Stickstoffkohlsäure. Fl. (P. GUTMANN, Dissert. Heidelberg 1903).
- $C_3H_5O_2Cl$ *1) α -Chlorpropionsäure. Sd. 185° (C. 1903 [2] 486).
- 9) γ -Chlor- β -Keto- α -Oxypropan. Sm. 74° (C. 1904 [1] 576).
- $C_3H_5O_2J$ *1) α -Jodpropionsäure. Sm. 44,5—45,5°. Mg + 4½ H₂O, Li + H₂O, Ba, Cu (B. 36, 4392 C. 1904 [1] 259).
- $C_3H_5O_3N$ 9) Gem. Anhydrid d. Salpetrigensäure u. Propionsäure. Sd. 60° (G. 34 [1] 442 C. 1904 [2] 511).
- 10) Methylester d. Oximidoessigsäure. Sm. 55°; Sd. 100°₁₅ (Bl. [3] 31, 678 C. 1904 [2] 195).
- $C_3H_5O_3N_3$ *3) Amid d. Oxalursäure (B. 37, 2929 C. 1904 [2] 1241).
- *4) Amid d. Oximidomalonsäure. Sm. 187—188° u. Zers. (175,5°) NH₄, K, Cu + H₂O, Ag, Ag + 2NH₃ (Soc. 83, 31 C. 1903 [1] 73, 441; M. 25, 67, 75 C. 1904 [1] 1552).
- 5) Semicarbazonessigsäure. Sm. 240° u. Zers. (Bl. [3] 31, 682 C. 1904 [2] 196).
- $C_3H_5O_3B$ *1) Borsäureglycerinester (B. 36, 2222 C. 1903 [2] 420).
- $C_3H_5O_4N$ *2) Amidomalonsäure. K (A. 333, 80 C. 1904 [2] 827).
- 6) Methylester d. Nitroessigsäure. Sd. 107°₃₃ NH₄, K (A. 328, 247 C. 1903 [2] 1000; Bl. [3] 31, 853 C. 1904 [2] 641).
- 7) Nitrat d. γ -Oxy- α - β -Propanoxyd. Sd. 62—64°₁₅ (A. 335, 238 C. 1904 [2] 1204).
- $C_3H_5O_4N_3$ *2) Amid d. Nitromethandicarbonsäure. Ag (M. 25, 58 C. 1904 [1] 1552; M. 25, 691 C. 1904 [2] 1110).
- *3) β -Nitro- $\alpha\gamma$ -Dioximidopropan. Na₂ (Am. 29, 260 C. 1903 [1] 957).

- $C_3H_5O_3P$ 1) Phosphat d. $\alpha\beta\gamma$ -Trioxypropan (*C. r.* 138, 49 *C.* 1904 [1] 431).
 $C_3H_5O_3N$ *1) Nitrat d. α -Oxypropionsäure. Fl. (*C. r.* 137, 1263 *C.* 1904 [1] 434).
 2) β -Nitro- α -Oxypropionsäure. Sm. 76—77°. Ca, Ba, Ag (*Am.* 32, 238 *C.* 1904 [2] 1141).
 3) Nitrat d. Oxyessigsäuremethylester. Sd. 165° u. Zers. (*C. r.* 137, 1263 *C.* 1904 [1] 434).
 $C_3H_5NBr_2$ *2) Aethylimidodibrommethan. Sm. 50—55°; Sd. 145—147° (*Bl.* [3] 31, 606 *C.* 1904 [2] 28).
 $C_3H_5NS_2$ *1) 2-Merkapto-4, 5-Dihydrothiazol. Sm. 105—106° (*C.* 1904 [1] 431; *B.* 36, 1281 *C.* 1903 [1] 1215).
 $C_3H_5Br_2S_2$ 1) Verbindung (aus Bromäthan) (*C.* 1903 [1] 19).
 $C_3H_5OCl_2$ *3) Chlormethyläther d. β -Chlor- α -Oxyäthan. Sd. 153—155°. + 2Pyridin (*A.* 330, 126 *C.* 1904 [1] 1064).
 4) Chlormethyläther d. α -Chlor- α -Oxyäthan. + 2Pyridin (*A.* 330, 124 *C.* 1904 [1] 1064).
 C_3H_5OS 5) Thiolpropionsäure. Fl. (*B.* 36, 1009 *C.* 1903 [1] 1077).
 $C_3H_5OS_2$ *1) Aethylxanthogensäure. Salze (*Z. a. Ch.* 41, 233 *C.* 1904 [2] 1107).
 $C_3H_5O_3N_2$ *1) $\alpha\beta$ -Dioximidopropan. Sm. 150° (*G.* 34 [1] 207 *C.* 1904 [1] 1485).
 *6) Monomethylamid d. Oxaminsäure. Sm. 231—233° (*Soc.* 83, 20 *C.* 1903 [1] 448).
 $C_3H_5O_2Cl_2$ 2) $\beta\beta$ -Dichlor- $\alpha\gamma$ -Dioxypropan (*C.* 1904 [1] 576).
 $C_3H_5O_2S$ *1) α -Merkaptopropionsäure (*C.* 1903 [1] 15; *H.* 42, 351, 365 *C.* 1904 [2] 979).
 *2) β -Merkaptopropionsäure (*H.* 42, 351 *C.* 1904 [2] 979).
 $C_3H_5O_3N_2$ *1) Propylnitrolsäure. Sm. 66° u. Zers. (*G.* 33 [1] 511 *C.* 1903 [2] 938).
 *8) Methylester d. Methylnitrosamidoameisensäure. Sd. 59—60,15 (*B.* 36, 2478 *C.* 1903 [2] 559).
 13) Methylderivat d. Nitroessigsäureamid. Sm. 112° (*M.* 25, 730 *C.* 1904 [2] 1111).
 $C_3H_5O_4N_2$ *1) $\alpha\alpha$ -Dinitropropan. K. (*J. pr.* [2] 67, 138 *C.* 1903 [1] 865; *G.* 33 [1] 414 *C.* 1903 [2] 551).
 *5) Malondihydroxamsäure. Sm. 160° (*Soc.* 81, 1572 *C.* 1903 [1] 158).
 $C_3H_5O_5N_2$ C 24,0 — H 4,0 — O 53,3 — N 18,7 — M. G. 150.
 1) Methyläther d. $\beta\beta$ -Dinitro- α -Oxyäthan. Sd. 84°. K. (*B.* 36, 436 *C.* 1903 [1] 563).
 $C_3H_5NBr_3$ 2) Aethylimidodibrommethanhydrobromid (*Bl.* [3] 31, 608 *C.* 1904 [2] 29).
 $C_3H_5N_2S$ *1) Aethylenthioharnstoff. Sm. 194° (*Ar.* 240, 675 *C.* 1903 [1] 393).
 C_3H_7ON *2) α -Amido- β -Ketopropan. HCl (*M.* 25, 1074 *C.* 1904 [2] 1659).
 *6) Formimidäthyläther. (HCl, HgCl₂) (*Am.* 31, 207 *C.* 1904 [1] 1064).
 *7) Amid d. Propionsäure. HBr (*B.* 36, 155 *C.* 1903 [1] 444).
 14) Aldehyd d. α -Amidopropionsäure. HCl (*B.* 37, 615 *C.* 1904 [1] 925).
 $C_3H_7ON_3$ 4) Acetylguanidin. HCl, (2HCl, PtCl₄ + 2H₂O), (HCl, AuCl₃) (*Ar.* 241, 471 *C.* 1903 [2] 988).
 C_3H_7OCl *1) β -Chlor- α -Oxypropan. Fl. (*C.* 1903 [2] 486).
 *3) γ -Chlor- β -Oxypropan (*C.* 1903 [2] 486).
 *6) Chlormethyläther d. Oxyäthan. Sd. 82° (*A.* 330, 122 *C.* 1904 [1] 1064; *A.* 334, 62 *C.* 1904 [2] 949).
 $C_3H_7O_2N$ *5) β -Oximido- α -Oxypropan. Sm. 68—70°; Sd. 123—125°,13 (*A.* 335, 259 *C.* 1904 [2] 1283).
 *15) Methylester d. Methylamidoameisensäure. Sd. 64—65°,14 (*B.* 36, 2476 *C.* 1903 [2] 559).
 *16) Aethylester d. Amidoameisensäure. Sm. 49° (*B.* 36, 2475 *C.* 1903 [2] 559).
 $C_3H_7O_2N_3$ *3) Guanidinsäure (Glykocyanin). Zers. bei 250—260°. Pikrat (*Am.* 29, 491 *C.* 1903 [1] 1310).
 5) Methyläther d. α -Amidoformylimido- α -Amido- α -Oxymethan (O-Methylisoburet). Sm. 118° (*C.* 1904 [2] 29).
 6) Amid d. Ureidoessigsäure. Sm. 204° u. Zers. (*Am.* 28, 391 *C.* 1903 [1] 90).
 $C_3H_7O_2J$ *1) γ -Jod- $\alpha\beta$ -Dioxypropan. Sd. 62°,34 (*A.* 335, 235 *C.* 1904 [2] 1204).
 $C_3H_7O_3N$ *7) β -Amido- α -Oxypropionsäure. Sm. 234—235° (241°). Cu + 3H₂O (*C.* 1903 [2] 343; *B.* 37, 337 *C.* 1904 [1] 647; *B.* 37, 343 *C.* 1904 [1] 646; *Am.* 32, 240 *C.* 1904 [2] 1141; *J. pr.* [2] 70, 201 *C.* 1904 [2] 1459).

- $C_3H_7O_3N$ *8) α -Amido- β -Oxypropionsäure (H. 39, 156 C. 1903 [2] 580).
 $C_3H_7O_3P$ *1) Allylphosphorsäure (C. r. 138, 762 C. 1904 [1] 1196).
 $C_3H_7NS_2$ *2) Aethylester d. Amidodithioameisensäure. Sm. 42° (C. r. 135, 975 C. 1903 [1] 139).
 5) Dimethyläther d. Imidodimerkaptomethan. HJ (C. r. 135, 976 C. 1903 [1] 139; B. [3] 29, 54 C. 1903 [1] 446).
 $C_3H_5ON_2$ *4) uns-Dimethylharnstoff. Sm. 182° (B. 36, 1197 C. 1903 [1] 1215).
 12) α -Acetyl- α -Methylhydrazin. Sm. 98° (B. 36, 3189 C. 1903 [2] 939).
 $C_3H_5O_3N_2$ *6) $\alpha\beta$ -Diamidopropionsäure. HCl (B. 37, 342 C. 1904 [1] 646; H. 42, 59 C. 1904 [2] 608).
 *8) Aethylester d. Hydrazidoameisensäure. Sm. 45°; Sd. 92°₁₅ HCl (B. 36, 745 C. 1903 [1] 827; P. GUTMANN, Dissert. Heidelberg 1903; J. pr. [2] 70, 276 C. 1904 [2] 1544).
 $C_3H_5O_3S$ 3) Propan- α -Sulfinsäure. Mg + 2H₂O (B. 37, 2153 C. 1904 [2] 186).
 $C_3H_5O_3S_2$ *2) Propan- $\alpha\gamma$ -Disulfonsäure. (NH₄)₂ Ag₂ (B. 37, 3808 C. 1904 [2] 1564).
 $C_3H_5O_3S_3$ *1) Propan- $\alpha\beta\gamma$ -Trisulfonsäure. (NH₄)₃ + H₂O, Ba₃ + 5H₂O (Am. 32, 165 C. 1904 [2] 944).
 $C_3H_5N_3S$ *7) Aethylpseudothioharnstoff. HBr (Soc. 83, 566 C. 1903 [1] 1123; Am. 29, 483 C. 1903 [1] 1309).
 C_3H_5ON *2) β -Methylamido- α -Oxyäthan. (HCl, AuCl₃) (B. 36, 3082 C. 1903 [2] 955).
 C_3H_5OAs *1) Trimethylarsenoxyd (C. r. 139, 599 C. 1904 [2] 1451).
 $C_3H_5O_3P$ *2) Trimethylester d. Phosphorigensäure. PtCl₂ (Z. a. Ch. 37, 398 C. 1904 [1] 157).
 4) α -Oxyisopropylmetaphosphorige Säure. Sm. 52°. Pb (C. 1904 [2] 1708).
 $C_3H_5O_3B$ *1) Trimethylester d. Borsäure. Sd. 65° (B. 36, 2221 C. 1903 [2] 420).
 $C_3H_5O_3P$ *5) α -Oxyisopropylphosphinsäure. Na₃ + 4H₂O (C. 1904 [2] 1708).
 $C_3H_5O_6P$ *1) l-Glycerinphosphorsäure (aus Lecithin). Ca + $\frac{3}{4}$ H₂O, Ba + $\frac{1}{2}$ H₂O (C. r. 138, 48 C. 1904 [1] 431; B. 37, 3754 C. 1904 [2] 1535).
 2) isom. Glycerinphosphorsäure (aus Glycerin u. Phosphorsäure). Ca + $\frac{1}{2}$ H₂O, Ba + H₂O (J. pr. [1] 36, 257; B. 37, 3757 C. 1904 [2] 1535).
 $C_3H_5N_3S$ *2) α -Amido- $\alpha\beta$ -Dimethylthioharnstoff. Sm. 137—138° (B. 37, 2320 C. 1904 [2] 311).
 C_3H_5ClS *1) Trimethylsulfinchlorid (J. pr. [2] 66, 453 C. 1903 [1] 561).
 $C_3H_5J_2As$ *1) Trimethylarsenjodid (C. r. 137, 297 C. 1904 [1] 80).
 $C_3H_5J_2S$ *1) Trimethylsulfintrijodid. Sm. 38° (C. 1904 [2] 415).
 $C_3H_5J_2Se$ 1) Trimethylselenintrijodid. Sm. 39° (C. 1904 [2] 415).
 $C_3H_5J_2Te$ 1) Trimethyltellurintrijodid. Sm. 76,5° (C. 1904 [2] 415).
 C_3H_5OSn *1) Zinntrimethyloxyhydrat (C. 1903 [2] 553).
 $C_3H_5O_2P_2$ 1) Verbindung (aus Glycerin). Ca (C. r. 136, 1457 C. 1903 [2] 281).
 $C_3ON_2S_2$ 1) Carbonyldithiocarbimid (Soc. 83, 84 C. 1903 [1] 230, 447).
 $C_3N_3S_3P$ 2) Phosphorthiothiocyanat. Sd. 163°₁₅ (Soc. 85, 353 C. 1904 [1] 935, 1407).

- $C_3H_2O_2N_2Cl_2$ 1) 5,5-Dichlor-2,4-Diketotetrahydroimidazol? Sm. 120—121° (A. 327, 380 C. 1903 [2] 661).
 $C_3H_2O_2N_2S$ 2) 1,2,3-Thiodiazol-4-Carbonsäure. Zers. bei 228° (A. 333, 11 C. 1904 [2] 780).
 $C_3H_5OClBr_2$ *1) Chlorid d. $\alpha\beta$ -Dibrompropionsäure. Sd. 71—73°₁₅ (B. 37, 2508 Am. C. 1904 [2] 427).
 $C_3H_5O_2N_3S$ 2) 6-Merkapto-2,4-Dioxy-1,3,5-Triazin + $\frac{3}{4}$ H₂O. (Thiocyanursäure). Zers. bei 316° (B. 36, 3196 C. 1903 [2] 956).
 $C_3H_4ON_3Se$ 2) 2-Imido-4-Ketotetrahydroseleazol. (Selenhydantoin.) Sm. 190° u. Zers. (Ar. 241, 193 C. 1903 [2] 103).
 3) Amid d. Selencyanessigsäure. Sm. 123—124° (Ar. 241, 198 C. 1903 [2] 103).
 $C_3H_4O_2NCl$ 3) α -Chlor- α -Nitroso- β -Ketopropan. Sm. 110°; Sd. 180—185° u. Zers. (C. 1903 [2] 486).
 $C_3H_4O_2NBr$ 1) Methylester d. Bromnitroessigsäure. Sd. 103°₁₅. NH₄ (A. 328, 249 C. 1903 [2] 1000).
 $C_3H_4O_2N_3Br$ 1) Amid d. Bromnitromalonsäure. Sm. 131—132° (M. 25, 694 C. 1904 [2] 1110).

- $C_3H_5O_5N_2Br$ 2) Methyläther d. β -Brom- β -Dinitro- α -Oxyäthan. *Sd.* 84° (*B. 36*, 437 *C. 1903* [1] 563).
- $C_3H_5N_3ClS$ 1) Chlormethylat d. 1,2,3-Thiodiazol. *Sm.* 192° u. *Zers.* 2 + $PtCl_4$, + $AuCl_3$ (*A. 333*, 21 *C. 1904* [2] 781).
- $C_3H_5N_3JS$ 1) Jodmethylat d. 1,2,3-Thiodiazol. *Sm.* 222° u. *Zers.* (*A. 333*, 20 *C. 1904* [2] 781).
- $C_3H_5ON_3Cl$ 1) Chloracetylguanidin. HCl , (2 HCl , $PtCl_4$ + 2 H_2O), (HCl , $AuCl_3$) (*Ar. 241*, 473 *C. 1903* [2] 989).
- $C_3H_6O_2N_2S$ 4) Methylester d. Thiopseudoallophansäure. HCl (*Soc. 83*, 567 *C. 1903* [1] 1123).
- $C_3H_6NClBr_2$ 1) Aethylimidodibrommethanhydrochlorid (*Bl. [3]* 31, 608 *C. 1904* [2] 29).
- $C_3H_6NBr_2J$ 1) Aethylimidodibrommethanhydrojodid (*Bl. [3]* 31, 608 *C. 1904* [2] 29).
- $C_3H_5O_3ClP$ 2) Verbindung (aus Glycerin). *Ca* (*C. r. 136*, 1458 *C. 1903* [2] 281).
- $C_3H_5NCl_2P$ 1) Propylamidodichlorphosphin. *Sd.* 97°₁₀ (*A. 326*, 150 *C. 1903* [1] 760).
- $C_3ON_3S_3P$ *1) Phosphoryltrithiocyanat. *Sd.* 175°₂₁ (*Soc. 85*, 362 *C. 1904* [1] 935, 1407).

— 3 V —

- $C_3H_5ONCl_2P$ 1) Propylmonamid d. Phosphorsäuredichlorid. *Sd.* 146°₁₈ (*A. 326*, 173 *C. 1903* [1] 819).
- $C_3H_5NCl_2SP$ 1) Propylmonamid d. Thiophosphorsäure. *Sd.* 121°₁₇ (*A. 326*, 203 *C. 1903* [1] 821).

C₄-Gruppe.

- C_4H_6 *2) $\alpha\gamma$ -Butadien (Erythren) (*C. 1903* [2] 489).
- 7) Kohlenwasserstoff (aus $\alpha\beta\gamma\delta$ -Tetrabrombutan) (*J. pr. [2]* 67, 421 *C. 1903* [1] 1296).
- C_4H_8 *4) Isobutylen (*B. 36*, 1997 *C. 1903* [2] 335).

— 4 II —

- $C_4H_2O_4$ *1) Aethindicarbonsäure. Monopyridinsalz, Monochinolinsalz (*C. r. 137*, 1064 *C. 1904* [1] 262).
- $C_4H_2Rb_2$ 1) Rubidiumcarbidacetylen (*C. r. 136*, 1219 *C. 1903* [2] 105).
- $C_4H_2Ss_2$ 1) Cäsiumcarbidacetylen (*C. r. 136*, 1217 *C. 1903* [2] 105).
- $C_4H_4O_2$ *3) Lakton d. γ -Oxypropen- α -Carbonsäure. *Sm.* 4°; *Sd.* 95—96°₁₃ (*C. r. 138*, 1051 *C. 1904* [1] 1482).
- $C_4H_4O_3$ *3) Tetronsäure. *Na* (*B. 36*, 471 *C. 1903* [1] 627).
- *5) Anhydrid d. Bernsteinsäure (*Am. 31*, 267 *C. 1904* [1] 1078).
- $C_4H_4O_4$ *1) Fumarsäure. Pyridinsalz, Chinolinsalz, Dichinaldinsalz (*C. 1903* [2] 712; *C. r. 137*, 1064 *C. 1904* [1] 262; *B. 36*, 4317 *C. 1904* [1] 449).
- *2) Maleinsäure (*C. 1903* [2] 712).
- $C_4H_4O_5$ *1) Oxalelessigsäure. *Zers.* bei 148—150°. Ag_2 (*C. r. 137*, 855 *C. 1904* [1] 85; *A. 331*, 101 *C. 1904* [1] 931).
- $C_4H_4N_2$ *1) 1,2-Diazin. *Sm.* —8°; *Sd.* 205°₇₅₅. (2 HCl , $PtCl_4$), 2 + $PtCl_4$, + $AuCl_3$, Pikrat (*C. r. 136*, 369 *C. 1903* [1] 652).
- C_4H_5N *5) Nitril d. Propen- α -Carbonsäure (*C. r. 137*, 262 *C. 1903* [2] 657).
- $C_4H_5N_3$ 2) 2-Amido-1,3-Diazin. *Sm.* 127—128°. HCl , Pikrat (*B. 36*, 2229 *C. 1903* [2] 448).
- 3) 4-Amido-1,3-Diazin. *Sm.* 150—152° (*B. 36*, 2232 *C. 1903* [2] 448).
- C_4H_6O *1) Methyläther d. γ -Oxypropin. 2 + 3($HgCl_2$, HgO) (*G. 33* [1] 317 *C. 1903* [2] 281).
- $C_4H_6O_2$ *6) α -Crotonsäure. Brucinsalz, Chininsalz (*Soc. 85*, 347 *C. 1904* [1] 1067, 1401; *C. 1904* [2] 1206).
- *7) β -Crotonsäure. Brucinsalz, Chininsalz (*Soc. 85*, 347 *C. 1904* [1] 1067, 1401; *C. 1904* [2] 1238).
- *9) Metakrylsäure (*B. 36*, 1271 *C. 1903* [1] 1219).
- *11) R-Trimethylencarbonsäure (*Soc. 83*, 1378 *C. 1904* [1] 162, 437).
- *19) Propen- γ -Carbonsäure. *Sd.* 167—169° (*B. 36*, 2897 *C. 1903* [2] 825; *A. 314*, 201 *C. 1904* [2] 884).

- $C_4H_8O_3$ *8) α -Ketopropan- α -Carbonsäure. Ba + H_2O (A. 331, 124 C. 1904 [1] 932).
- *13) Anhydrid d. Essigsäure (G. 33 [1] 77 C. 1903 [1] 1109).
- 26) Verbindung [aus dem Aethylester d. α -(4-Dimethylamidophenyl)imido- β -Ketopropan- α -Carbonsäure]. Sm. 88° (B. 36, 3234 C. 1903 [2] 941).
- $C_4H_8O_4$ *1) Aethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 132° (C. 1903 [2] 1330; A. 325, 145 C. 1903 [1] 644; M. 24, 116 C. 1903 [1] 967).
- *2) Bernsteinäure (C. 1903 [2] 712; C. r. 135, 1352 C. 1903 [1] 320; C. 1904 [1] 505).
- *3) Acetoxylessigsäure. Sm. 66—68°; Sd. 144—145°₁₂ (B. 36, 466 C. 1903 [1] 626).
- *4) Superoxyd d. Essigsäure (Am. 29, 182 C. 1903 [1] 959).
- $C_4H_8O_5$ *4) β -Oxyäthan- $\alpha\alpha$ -Dicarbonsäure. Ca, Cu (C. 1904 [2] 641).
- *6) i-Aepfelsäure. Monochinolinsalz (G. 33 [2] 139 C. 1903 [2] 1315; C. r. 137, 1064 C. 1904 [1] 262).
- *7) i-Aepfelsäure (C. r. 135, 1352 C. 1903 [1] 320).
- 21) Bernsteinmonopersäure. Sm. 107° u. Zers. (Am. 32, 61 C. 1904 [2] 766).
- $C_4H_8O_6$ *1) d-Weinsäure (C. r. 135, 1352 C. 1903 [1] 320; A. 328, 152 C. 1903 [2] 987).
- *3) Mesoweinsäure (B. 35, 4344 C. 1903 [1] 282).
- $C_4H_8N_2$ *5) 5-Methylpyrazol (C. 1903 [2] 1323).
- *8) 4- (oder 5-) Methylimidazol. Sm. 55° (Soc. 83, 464 C. 1903 [1] 931, 1143).
- $C_4H_8N_4$ C 43,6 — H 5,4 — N 50,9 — M. G. 110.
- 1) 2,4-Diamido-1,3-Diazin. Sm. 144—145° (2HCl, PtCl₄) (B. 36, 2233 C. 1903 [2] 449).
- 2) 4,6-Diamido-1,3-Diazin. Sm. 267° (B. 36, 2231 C. 1903 [2] 448).
- $C_4H_8Br_2$ *2) $\alpha\delta$ -Dibrom- β -Buten. Sm. 51° (C. 1903 [2] 489).
- $C_4H_7N_3$ *2) 2,5-Dimethyl-1,3,4-Triazol. Sm. 141—142°; Sd. 159°₁₉. + AgNO₃ (J. pr. [2] 69, 153 C. 1904 [1] 1274).
- C_4H_7Br 10) Bromderivat (aus dem Kohlenwasserstoff C₄H₈). Sd. 102—107° (J. pr. [2] 67, 421 C. 1903 [1] 1296).
- C_4H_7J *3) 1-Jodmethyl-R-Trimethylen. Sd. 134°₇₅₃ (C. 1903 [2] 489).
- C_4H_8O *3) β -Methylpropan- $\alpha\beta$ -Oxyd (B. 36, 2018 C. 1903 [2] 338).
- *10) β -Ketobutan (C. r. 137, 576 C. 1903 [2] 1110; M. 25, 336 C. 1904 [1] 1400).
- *12) Aldehyd d. Buttersäure (B. 37, 188 C. 1904 [1] 638).
- *13) Aldehyd d. Isobuttersäure (C. r. 138, 91 C. 1904 [1] 505; M. 25, 188 C. 1904 [1] 1000).
- $C_4H_8O_2$ 17) Methyläther d. α -Oxy- β -Ketopropan. Sd. 112—114° (G. 33 [1] 317 C. 1903 [2] 281; C. 1904 [2] 302).
- 18) Methyläther d. γ -Oxypropan- $\alpha\beta$ -Oxyd. Sd. 115—116° (C. 1904 [2] 303).
- $C_4H_8O_3$ *2) Methylenäther d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 90—91°₁₈ (A. 335, 215 C. 1904 [2] 1202).
- *6) i- β -Oxybuttersäure (H. 37, 355 C. 1903 [1] 738).
- $C_4H_8O_4$ *2) i- $\alpha\beta$ -Dioxybuttersäure. Ba + 2H₂O, Brucinsalz, Chininsalz, Chindialsalz (Soc. 85, 199 C. 1904 [1] 933).
- *12) d-Erythrose (C. 1904 [2] 1291).
- *14) d- $\alpha\beta$ -Dioxybuttersäure. Ba (Soc. 85, 202 C. 1904 [1] 934).
- 17) l- $\alpha\beta$ -Dioxybuttersäure. Sm. 74—75°. Ba (Soc. 85, 201 C. 1904 [1] 788, 934).
- *4) d-Erythronsäure (H. 37, 424 C. 1903 [1] 1147).
- $C_4H_8N_2$ *2) 5-Methyl-4,5-Dihydropyrazol (M. 24, 443 C. 1903 [2] 617).
- *6) Nitril d. Dimethylamidoessigsäure. Sd. 139° (C. 1904 [2] 945, 1377).
- 7) Nitril d. Aethylamidoessigsäure. Sd. 166—167° (B. 37, 4092 C. 1904 [2] 1725).
- *4) Aethylimidoäthan. Sd. 48° (C. 1904 [2] 945).
- C_4H_8Cl *4) β -Chlor- β -Methylpropan (C. 1904 [2] 691).
- C_4H_8Br *3) Isobutylbromid (B. 36, 1989 C. 1903 [2] 334).
- *4) β -Brom- β -Methylpropan. Sm. 72° (B. 36, 1988 C. 1903 [2] 334; C. 1904 [1] 1065).
- C_4H_8J *4) β -Jod- β -Methylpropan (C. 1904 [2] 691).

- $C_4H_{10}O$ *1) α -Oxybutan (*C. r.* 136, 1261 *C. 1903* [2] 105).
 *2) β -Oxybutan (*C. r.* 137, 302 *C. 1903* [2] 708).
 *3) Isobutylalkohol (*C. r.* 137, 302 *C. 1903* [2] 708).
 *4) Trimethylcarbinol. Sm. 25,45°; Sd. 82,8°₇₆₁ (*C. r.* 136, 1035 *C. 1903* [1] 1296).
 *6) Diäthyläther. + 5HCl, + HBr, + HJ, + AlCl₃ (*Soc.* 85, 925 *C. 1904* [2] 585; *Soc.* 85, 1106 *C. 1904* [2] 976).
 8) Methyläther d. β -Oxypropan. Sd. 32,5°₇₇₇ (*C. 1904* [1] 1065).
 $C_4H_{10}O_2$ *2) $\alpha\gamma$ -Dioxybutan (*M.* 25, 1 *C. 1904* [1] 715; *M.* 25, 332 *C. 1904* [1] 1400).
 $C_4H_{10}O_3$ 7) Dimethyläther d. Di[Oxymethyl]äther. Sd. 106—108° (*C. r.* 138, 1705 *C. 1904* [2] 416).
 $C_4H_{10}O_4$ *3) d-Erythrit. Sm. 88,5—89° (*C. 1904* [2] 1291).
 *6) Diäthylsulfid (*G.* 33 [1] 77 *C. 1903* [1] 1109).
 $C_4H_{11}N$ *1) α -Amidobutan. (2HCl, SnCl₄), (2HCl, PtCl₄) (*C. 1904* [1] 923).
 *4) tert. Butylamin (*B.* 36, 685 *C. 1903* [1] 817).
 *6) Diäthylamin. (HCl + HgCl₂ + H₂O), (2HCl, SnCl₄), (2HCl, PtCl₄) (*J. pr.* [2] 66, 469 *C. 1903* [1] 561; *C. 1904* [1] 923).
 *8) d- β -Amidobutan. Sd. 63°. HCl, Bitartrat (*B.* 36, 583 *C. 1903* [1] 695; *Ar.* 242, 48 *C. 1904* [1] 997; *Ar.* 242, 53 *C. 1904* [1] 997).
 11) l- β -Amidobutan. Sd. 63°. HCl, Bitartrat (*B.* 36, 583 *C. 1903* [1] 695).
 12) Base (aus Spilanthol). HCl, (2HCl, PtCl₄), (HCl, AuCl₃) (*Ar.* 241, 283 *C. 1903* [2] 452).
 $C_4H_{12}N_2$ *6) $\alpha\gamma$ -Diamidobutan. Sd. 147—150°₇₆₀. 2HCl (*B.* 36, 1924 *C. 1903* [2] 209).
 C_4O_4Ni *1) Kohlenoxydnickel (*C. 1903* [1] 1250; *Ph. Ch.* 46, 37 *C. 1904* [1] 361; *Soc.* 85, 203 *C. 1904* [1] 632, 919; D.R.P. 149559 *C. 1904* [1] 1048; *C. 1904* [2] 1111).

— 4 III —

- $C_4HN_2Cl_3$ *1) 2,4,6-Trichlor-1,3-Diazin. Sd. 213° (*B.* 37, 3657 *C. 1904* [2] 1416).
 $C_4H_2O_5N_4$ *2) Verbindung (aus Acetylen). Sm. 108° (*G.* 33 [2] 321 *C. 1904* [1] 255).
 $C_4H_2O_7N_4$ C 19,5 — H 0,8 — O 45,5 — N 34,1 — M. G. 246.
 1) Verbindung (aus Acetylen). Sm. 78° u. Zers. (*G.* 33 [2] 320 *C. 1904* [1] 255).
 $C_4H_2NCl_3$ 1) 2,3,5-Trichlorpyrrol. Fl. (*G.* 34 [1] 256 *C. 1904* [1] 120; *G.* 34 [1] 414 *C. 1904* [2] 452).
 $C_4H_3ON_3$ C 52,7 — H 3,3 — O 17,6 — N 26,4 — M. G. 109.
 1) Cyanamid d. Cyanessigsäure. Sm. 93° u. Zers. (D.R.P. 151597 *C. 1904* [2] 69).
 $C_4H_3O_2N$ 3) Imid d. Maleinsäure. Sm. 93° (*C. 1904* [2] 305).
 $C_4H_3O_5N$ *2) Verbindung (aus Acetylen). Sm. 149° (*G.* 33 [2] 323 *C. 1904* [1] 256).
 $C_4H_3O_3Cl_3$ 3) Formaltrichlormilchsäure. Sm. 32°; Sd. 162°₁₅ (*R.* 21, 317 *C. 1903* [1] 137).
 $C_4H_3O_4N_3$ *7) 1,2,3-Triazol-4,5-Dicarbonsäure + 2H₂O. Sm. 201° u. Zers. (*A.* 325, 154 *C. 1903* [1] 644).
 $C_4H_3O_4Br$ *1) Bromfumar säure. Monopyridinsalz (*C. r.* 137, 1065 *C. 1904* [1] 262).
 $C_4H_3O_5N_3$ *2) 1-Oxy-1,2,3-Triazol-4,5-Dicarbonsäure. Sm. 91—92°. K + H₂O (*A.* 325, 165 *C. 1903* [1] 645).
 $C_4H_3NS_2$ 1) Dimethyläther d. Methylimidodimerkaptomethan (*C. r.* 136, 452 *C. 1903* [1] 699).
 $C_4H_3N_3Cl_2$ 1) 4,6-Dichlor-2-Amido-1,3-Diazin. Sm. 221° (*B.* 36, 2228 *C. 1903* [2] 448).
 2) 2,6-Dichlor-4-Amido-1,3-Diazin. Sm. 270—271° (*B.* 36, 2228 *C. 1903* [2] 448).
 $C_4H_3O_2N_2$ *10) Uracil. Sm. 338° (*H.* 37, 527 *C. 1903* [1] 1218; *Am.* 29, 485 *C. 1903* [1] 1309).
 12) 3-Nitropyrrol (*C. 1902* [2] 704; *1903* [2] 121).
 $C_4H_4O_2N_4$ 2) Nitril d. α -Oximido- β -Nitrosimidopropionsäure. NH₃ (*B.* 37, 3469 *C. 1904* [2] 1305).
 $C_4H_4O_3N_2$ 11) Methyläther d. 2-Oxy-4,5-Diketo-4,5-Dihydroimidazol (Methylparabansäure). Sm. 137,5°. (2HCl, PtCl₄) (*C. 1904* [2] 30).
 $C_4H_4O_4N_4$ 4) 4-Nitramido-2-Keto-1,2-Dihydro-1,3-Diazin. Zers. oberh. 300° (*Am.* 31, 605 *C. 1904* [2] 243).
 $C_4H_4O_4N_4$ *8) Diamid d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsäure. Sm. 253° (*Bl.* [3] 27, 1166 *C. 1903* [1] 228).

- $C_4H_4O_4Br_2$ *1) $\alpha\beta$ -Dibrombernsteinsäure. Monopyridinsalz, Dichinolinsalz, Monochinaldinsalz (*C. r.* 137, 1064 *C. 1904* [1] 262).
- $C_4H_4O_5N_2$ *1) Alloxansäure. $K + 3H_2O$ (*A.* 333, 89 *C. 1904* [2] 828).
 5) α -Amid d. α -Nitroäthen- $\alpha\beta$ -Dicarbonsäure (α -A. d. Nitromaleinsäure). NH_4 , K, Na, Ag (*Am.* 32, 235 *C. 1904* [2] 1141).
- $C_4H_4O_6N_2$ *1) Dinitroweinsäure (*Soc.* 83, 155 *C. 1903* [1] 627).
- C_4H_4NBr 2) Nitril d. γ -Brompropen- α -Carbonsäure. Sm. -14° ; Sd. 84°_{13} (*C. r.* 138, 1051 *C. 1904* [1] 1481).
- $C_4H_4N_3S_3$ 1) 2,4,6-Trimerkapto-1,3-Diazin (*B.* 36, 2234 *C. 1903* [2] 449).
- $C_4H_4N_3Cl$ 1) 4-Chlor-2-Amido-1,3-Diazin. Zers. bei 168° . ($2HCl$, $PtCl_4$) (*B.* 36, 3383 *C. 1903* [2] 1193).
- $C_4H_4N_3J$ 1) 6-Jod-4-Amido-1,3-Diazin. Sm. $211-212^\circ$ (*B.* 36, 2231 *C. 1903* [2] 448).
- $C_4H_5ON_3$ 2) 4-Amido-2-Keto-1,2-Dihydro-1,3-Diazin $+ H_2O$ (Cytosin). Zers. bei $320-325^\circ$. $2HCl$, ($2HCl$, $PtCl_4$), HNO_3 , H_2SO_4 , Pikrat (*B.* 27, 2219; *H.* 37, 377 *C. 1903* [1] 725; *Am.* 29, 498 *C. 1903* [1] 1311; *Am.* 29, 505 *C. 1903* [1] 1311; *H.* 38, 49 *C. 1903* [1] 1364; *H.* 38, 80 *C. 1903* [1] 1366; *H.* 38, 170 *C. 1903* [1] 1417; *H.* 39, 7 *C. 1903* [2] 449; *Am.* 31, 598 *C. 1904* [2] 242). — IV, 1625.
 3) 2-Amido-4-Oxy-1,3-Diazin (2-Amido-4-Keto-3,4-Dihydro-1,3-Diazin). Sm. 276° u. Zers. ($2HCl$, $PtCl_4$), (HCl , $AuCl_3$). Pikrat (*Am.* 29, 501 *C. 1903* [1] 1311; *B.* 36, 3382 *C. 1903* [2] 1193).
 4) Base $+ H_2O$ (aus Störtestikeln). ($2HCl$, $PtCl_4$) (*H.* 37, 178 *C. 1903* [1] 240).
 6) Aldehyd d. $\gamma\gamma\gamma$ -Trichlorbuttersäure (*C. 1904* [1] 480).
- $C_4H_5OCl_3$ *7) Succinimid. Sm. 125° . Salze siehe (*Ph. Ch.* 42, 703 *C. 1903* [1] 756; *J. pr.* [2] 69, 17 *C. 1904* [1] 640; *B.* 37, 1479 *C. 1904* [1] 1331).
- $C_4H_5O_2N_3$ *8) Nitril d. Acetoxylessigsäure. Sd. $179-180^\circ_{755}$ (*C. 1904* [2] 1377).
 *3) 4-Oximido-5-Keto-3-Methyl-4,5-Dihydropyrazol $+ H_2O$. Sm. 230° u. Zers. (232°). Ag, Methylpyrazolonsalz (*A.* 328, 66 *C. 1903* [2] 249; *G.* 34 [1] 210 *C. 1904* [1] 1486; *G.* 34 [1] 180 *C. 1904* [1] 1332; *B.* 37, 2832 *C. 1904* [2] 642; P. GUTTMANN, Dissert., Heidelberg 1903).
 13) 5-Oxy-4-Acetyl-1,2,3-Triazol. Sm. $128-129^\circ$ u. Zers. (*A.* 325, 154 *C. 1903* [1] 644).
 14) 5-Methyl-1,2,3-Triazol-4-Carbonsäure $+ H_2O$. Sm. 235° u. Zers. (*A.* 325, 153 *C. 1903* [1] 644).
- $C_4H_5O_3N_3$ *2) 5-Amido-2,4,6-Triketohexahydro-1,3-Diazin. K, $K_2 + 2H_2O$, Na, Ba (*A.* 333, 71 *C. 1904* [2] 826).
 6) 4-Nitro-5-Keto-3-Methyl-4,5-Dihydropyrazol. Sm. 276° (*G.* 34 [1] 186 *C. 1904* [1] 1332).
 7) 1-Oxy-4,5-Dihydro-1,2,3-Triazol-4-Methylenearbonsäure. Sm. 184 bis 185° . Ba $+ H_2O$ (*B.* 36, 4256 *C. 1904* [1] 359).
 8) 1-Oxy-5-Methyl-1,2,3-Triazol-4-Carbonsäure $+ H_2O$. Zers. bei 205° . Ag_2 (*A.* 325, 164 *C. 1903* [1] 645).
- $C_4H_5O_3Cl$ *2) Chlorid d. Oxalsäuremonoäthylester. Sd. $133-135^\circ_{80}$ (*B.* 37, 3678 *C. 1904* [2] 1495).
 3) Chlorid d. Acetoxylessigsäure. Sd. $147-160^\circ$ u. Zers. (54°_{14}) (*B.* 36, 467 *C. 1903* [1] 626).
- $C_4H_5O_4N_3$ *1) 1-Nitro-2,4-Diketo-3-Methyltetrahydroimidazol. Sm. 168° (*A.* 327, 377 *C. 1903* [2] 661).
 7) Säure (aus Uramil). K $+ \frac{1}{2}H_2O$ (*A.* 333 88 *C. 1904* [2] 828).
- $C_4H_5O_4Br$ *2) i-Brombernsteinsäure. Dichinaldinsalz (*C. r.* 137, 1064 *C. 1904* [1] 262; *B.* 37, 2598 *C. 1904* [2] 421).
- $C_4H_5O_5N$ 5) Amidooxybernsteinsäure. Sm. 320° (*B.* 37, 1596 *C. 1904* [1] 1449).
 6) Oximidomalonmethyläthersäure. Sm. $90-91^\circ$. $Ag_2 + \frac{1}{2}H_2O$ (*M.* 25, 110 *C. 1904* [1] 1553).
- $C_4H_5O_5N_3$ 2) Säure (aus Nitroessigsäureamid). Sm. 101° u. Zers. Ag (*M.* 25, 738 *C. 1904* [2] 1111).
- $C_4H_5O_6Br$ *1) Bromäpfelsäure. Monochinaldinsalz (*C. r.* 137, 1065 *C. 1904* [1] 262).
 $C_4H_5O_6N$ C 26,8 — H 2,8 — O 62,6 — N 7,8 — M. G. 179.
 1) β -Nitro- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäure (Nitroäpfelsäure). Ba_3 (*Am.* 32, 237 *C. 1904* [2] 1141).
 2) Nitrat d. Oxyacetoxylessigsäure. Fl. (*Bl.* [3] 29, 678 *C. 1903* [2] 488).

- $C_4H_5O_7N$ 3) Nitrat d. Aepfelsäure. Sm. 115° u. Zers. (*Bl.* [3] 29, 679 *C.* 1903 [2] 488).
 $C_4H_5O_7N_3$ C 23,2 — H 2,4 — O 54,1 — N 20,3 — M. G. 207.
 1) Verbindung + $\frac{3}{4}H_2O$ (aus Nitroessigsäureamid) (*M.* 25, 717 *C.* 1904 [2] 1110).
 $C_4H_5NBr_2$ 2) Nitril d. $\beta\gamma$ -Dibrombuttersäure. Sd. 124—126° (*C. r.* 136, 1265 *C.* 1903 [2] 106; *C. r.* 137, 262 *C.* 1903 [2] 657).
 $C_4H_5N_3S_2$ *2) Chrysean (*B.* 36, 3546 *C.* 1903 [2] 1378).
 $C_4H_5N_4Cl$ 1) 6-Chlor-2,4-Diamido-1,4-Diazin. Sm. 198° (*B.* 36, 2232 *C.* 1903 [2] 449).
 $C_4H_5N_4J$ 1) 6-Jod-2,4-Diamido-1,3-Diazin. Sm. 187—188° (*B.* 36, 2233 *C.* 1903 [2] 449).
 $C_4H_6ON_2$ *8) Amid d. α -Cyanpropionsäure. Sm. 105° (105—106°; 81°p) (*C.* 1903 [2] 192, 713).
 *14) 2,5-Dimethyl-1,3,4-Oxdiazol. Sd. 178—179° (*J. pr.* [2] 69, 150 *C.* 1904 [1] 1274).
 $C_4H_6ON_4$ *1) 4-Imido-2-Keto-6-Methyl-1,2,3,4-Tetrahydro-1,3,5-Triazin. Pikrat (*G.* 34 [2] 76 *C.* 1904 [2] 716).
 8) Diamidooxy-1,3-Diazin (*H.* 38, 176 *C.* 1903 [1] 1417).
 9) 4,6-Diamido-2-Keto-1,2-Dihydro-1,3-Diazin. Sm. noch nicht bei 347°. 2HCl, Pikrat (*Am.* 32, 349 *C.* 1904 [2] 1414).
 $C_4H_6OCl_2$ *2) Aethyläther d. $\beta\beta$ -Dichlor- α -Oxyäthen. Sd. 144—146° (*C.* 1903 [1] 13; *G.* 33 [2] 383 *C.* 1904 [1] 921).
 $C_4H_6O_2N_2$ *3) 2,4-Diketo-3-Methyltetrahydroimidazol. Sm. 181—182°. Ag (*A.* 333, 113 *C.* 1904 [2] 893).
 *4) Laktylharnstoff. Sm. 148° (145°) (*Am.* 28, 394 *C.* 1903 [1] 90; *A.* 327, 383 *C.* 1903 [2] 661).
 *6) Glycinanhydrid. Ag₂ (*B.* 37, 1289 *C.* 1904 [1] 1336; *B.* 37, 2501 *C.* 1904 [2] 426).
 *9) Methylester d. α -Diazopropionsäure. Sd. 43—45°₁₁ (*B.* 37, 1270 *C.* 1904 [1] 1334).
 20) 2-Oxy-5-Keto-1-Methyl-4,5-Dihydroimidazol. Sm. 171° (*A.* 327, 375 *C.* 1903 [2] 661).
 $C_4H_6O_2N_4$ 8) 5,6-Diamido-2,4-Diketo-1,2,3,4-Tetrahydro-1,3-Diazin. H_2SO_4 + $\frac{1}{2}H_2O$ (D.R.P. 144761 *C.* 1903 [2] 859).
 9) 1-Amido-5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 190° u. Zers. (*B.* 36, 3616 *C.* 1903 [2] 1381).
 $C_4H_6O_2Cl_2$ *12) $\beta\gamma$ -Dichlorbuttersäure (*C. r.* 138, 1051 *C.* 1904 [1] 1482).
 $C_4H_6O_2Br_2$ *14) $\beta\gamma$ -Dibrombuttersäure. Sm. 49—50° (*C. r.* 136, 1266 *C.* 1903 [2] 106; *C. r.* 138, 1051 *C.* 1904 [1] 1482).
 $C_4H_6O_2F_2$ 1) Aethylester d. Difluoressigsäure. Sd. 99,2° (*C.* 1903 [2] 710).
 2) $\beta\beta$ -Difluoräthylester d. Essigsäure. Sd. 106° (*C.* 1903 [1] 437).
 $C_4H_6O_3N_4$ *1) Allantoïn (5-Ureido-2,4-Diketotetrahydroimidazol). Sm. 230—232°. K (*C. r.* 138, 426 *C.* 1904 [1] 792; *H.* 41, 342 *C.* 1904 [1] 1338; *A.* 333, 133 *C.* 1904 [2] 895).
 $C_4H_6O_4N_2$ *5) Methyloxalursäure. Sm. 177—178° (*A.* 327, 263 *C.* 1903 [2] 349; *A.* 333, 126 *C.* 1904 [2] 894).
 7) Methylderivat d. α -Verb. $C_8H_4O_4N_2$ (*M.* 25, 101 *C.* 1904 [1] 1553).
 8) Methylderivat d. β -Verb. $C_8H_4O_4N_2$ (*M.* 25, 102 *C.* 1904 [1] 1553).
 9) Monoamid d. Oximidomalonnmethylläthersäure. Sm. 137—138° u. Zers. Ag (*M.* 25, 107 *C.* 1904 [1] 1553).
 $C_4H_6O_5N_2$ *4) Aethylester d. Oximidonitroessigsäure. Sm. 61° u. Zers. [*Bl.* [3] 31, 679 *C.* 1904 [2] 195).
 5) Ureidomalonsäure. Sm. 148—150° u. Zers. $(NH_4)_2 + H_2O$, Ba + H_2O , Pb + H_2O (*A.* 333, 80 *C.* 1904 [2] 827).
 $C_4H_6O_6N_2$ C 27,0 — H 3,4 — O 53,9 — N 15,7 — M. G. 178.
 1) Aethylester d. Dinitroessigsäure. Fl (*C. r.* 136, 159 *C.* 1903 [1] 501).
 $C_4H_6O_6Cr$ 1) Gem. Anhydrid d. Essigsäure u. Chromsäure (*B.* 36, 2218 *C.* 1903 [2] 420).
 C_4H_5NBr *1) Nitril d. γ -Brombuttersäure. Sd. 91°₁₂ (*Am.* 30, 161 *C.* 1903 [2] 712).
 $C_4H_5N_2S$ *9) 2,5-Dimethyl-1,3,4-Thiodiazol. Sm. 64°; Sd. 202—203° (*J. pr.* [2] 69, 152 *C.* 1904 [1] 1274).

- $C_4H_8N_2S_2$ 1) Dimethyläther d. α -Cyanimido- $\alpha\alpha$ -Dimerkaptomethan. Sm. 57° (A. 331, 285 C. 1904 [2] 31).
- $C_4H_8N_2S_3$ 5) Dimethyläther d. 3,5-Dimerkapto-1,2,4-Thiodiazol (Dimethylper-sulfoeyanat). Sm. 42°; Sd. 279° (A. 331, 292 C. 1904 [2] 32).
- $C_4H_8N_1Se$ 2) 2,5-Dimethyl-1,3,4-Selendiazol. Sm. 77°. + $AgNO_3$ (J. pr. [2] 69, 509 C. 1904 [2] 601).
- $C_4H_8N_4S$ 2) 4,6-Diamido-2-Merkapto-1,3-Diazin + $\frac{1}{2}H_2O$. Sm. noch nicht bei 280° (A. 331, 80 C. 1904 [1] 1200).
- C_4H_7ON *5) Nitril d. α -Oxyisobuttersäure (D. R. P. 141509 C. 1903 [1] 1244).
- $C_4H_7ON_3$ 8) Amid d. 4,5-Dihydropyrazol-1-Carbonsäure. Sm. 171° (A. 335, 211 C. 1904 [2] 1202).
- $C_4H_7OCl_3$ *2) $\alpha\alpha\alpha$ -Trichlor- β -Oxy- β -Methylpropan + $\frac{1}{2}H_2O$ (C. 1904 [1] 1643).
- *4) Äthyläther d. $\alpha\beta\beta$ -Trichlor- α -Oxyäthan. S. 170—175° (G. 33 [2] 376 C. 1904 [1] 921).
- $C_4H_7OBr_3$ *2) $\alpha\alpha\alpha$ -Tribrom- β -Oxy- β -Methylpropan + $\frac{1}{2}H_2O$ (C. 1904 [1] 1643).
- $C_4H_7O_2N$ *2) γ -Oximido- β -Ketobutan. Sd. 83° (Bl. [3] 31, 1165 C. 1904 [2] 1700).
- $C_4H_7O_2N_3$ 9) 3,5-Dioxy-6-Methyl-1,6-Dihydro-1,2,4-Triazin. Na (Am. 23, 398 C. 1903 [1] 90).
- $C_4H_7O_2Br$ *8) Äthylester d. Bromessigsäure. Sd. 158,2°₈₀ (B. 36, 291 C. 1903 [1] 581).
- $C_4H_7O_3N$ *1) α -Oximidobuttersäure. Sm. 169—170° u. Zers. (Bl. [3] 31, 1071 C. 1904 [2] 1457).
- *3) Methylester d. α -Oximidopropionsäure. Sm. 68—69°; Sd. 122—123°₁₄ (Bl. [3] 31, 1070 C. 1904 [2] 1457).
- *4) Äthylester d. Oximidoessigsäure. Sm. 35°; Sd. 110—115°₁₅ (Bl. [3] 31, 675 C. 1904 [2] 195).
- 15) Amid d. Acetoxyllessigsäure. Sm. 93—95° (B. 36, 468 C. 1903 [1] 626).
- $C_4H_7O_3N_3$ 4) Amid d. Oximidomalonomethyläthersäure. Sm. 143—144,5° (M. 25, 72, 80 C. 1904 [1] 1552).
- $C_4H_7O_4N$ *4) l-Asparaginsäure (H. 38, 114 C. 1903 [1] 1423; H. 42, 207 C. 1904 [2] 961; Ph. Ch. 47, 615 C. 1904 [1] 1254).
- *9) Äthylester d. Nitroessigsäure. Sd. 95—98°₁₂. K (Bl. [3] 31, 850 C. 1904 [2] 640).
- $C_4H_7O_4N_5$ 3) α -Nitro- α -Nitroso- β -Semicarbazonpropan. Sm. 163—164° (C. 1903 [2] 1432).
- $C_4H_7O_4P$ 1) Phosphit d. Erythran. Sm. 117° (C. r. 136, 1068 C. 1903 [1] 1297).
- $C_4H_7O_5N$ 5) α -Nitro- β -Oxybuttersäure. Sm. 119—121° (C. 1903 [2] 554).
- 6) Amidooxybernsteinsäure. Cu + $4H_2O$ (H. 42, 285 C. 1904 [2] 958).
- 7) Nitrat d. α -Oxybuttersäure. Sm. 45° (C. r. 137, 1263 C. 1904 [1] 434).
- 8) Nitrat d. β -Oxybuttersäure. Fl. (Bl. [3] 31, 245 C. 1904 [1] 1067).
- 9) Nitrat d. α -Oxyisobuttersäure. Sm. 78° (Bl. [3] 31, 246 C. 1904 [1] 1067).
- $C_4H_7NF_4$ 1) Di[$\beta\beta$ -Difluoräthyl]amin. Sd. 124,4°₇₅₅ HCl, H_2SO_4 , Oxalat (C. 1904 [2] 945).
- $C_4H_7N_2S$ 2) 4,5,6-Triamido-2-Merkapto-1,3-Diazin + $\frac{1}{2}H_2O$ (A. 331, 82 C. 1904 [1] 1200).
- C_4H_8OS *4) Verbindung (aus Essigsäurealdehyd u. H_2S). Sm. 61° (C. 1904 [2] 21).
- $C_4H_8O_2N_2$ *1) s-Acetylmethylharnstoff. Sm. 178,5° (Am. 30, 419 C. 1904 [1] 241).
- *15) s-Dimethylamid d. Oxalsäure. Sm. 209—210° (210—212°) (A. 327, 262 C. 1903 [2] 349; B. 37, 2200 C. 1904 [2] 323).
- *20) s-Diacetylhydrazin. Sm. 138°; Sd. 209°₁₅. Cu (J. pr. [2] 69, 145 C. 1904 [1] 1274).
- 25) Methyläther d. α -Amido- α -Acetylido- α -Oxymethan (O-Methyl-acetylisoharnstoff). Sm. 58,5°. Ag (C. 1904 [1] 1560).
- 26) Propionylharnstoff. Sm. 209° (D. R. P. 147278 C. 1904 [1] 68).
- $C_4H_8O_2N_4$ 10) α -Oximido- β -Semicarbazonpropan. Sm. 219—220° (C. 1903 [2] 1432).
- $C_4H_8O_3Cl_2$ *2) Monoäthyläther d. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. Sd. 109—111° (G. 33 [2] 402 C. 1904 [1] 922).
- 3) Dimethyläther d. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. Sd. 166—168° (G. 33 [2] 415 C. 1904 [1] 922).
- $C_4H_8O_3N_2$ *8) Äthylester d. Methylnitrosamidoameisensäure. Sd. 65—65,5°₁₃ (B. 36, 2478 C. 1903 [2] 559; B. 36, 3636 C. 1903 [2] 1331; B. 36, 4295 C. 1904 [1] 507).
- *9) Äthylester d. Allophansäure. Sm. 192° (B. 36, 743 C. 1903 [1] 827).

- C₄H₈O₃N₂** *11) α -Amid d. α -Amidoäthan- $\alpha\beta$ -Dicarbonsäure (*G.* 34 [2] 44 *C.* 1904 [2] 825).
 *12) d-Asparagin (*G.* 34 [2] 36 *C.* 1904 [2] 825).
 *13) l-Asparagin (*Ph. Ch.* 47, 611 *C.* 1904 [1] 1254; *G.* 34 [2] 36 *C.* 1904 [2] 825).
 *20) Diamid d. l- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 157° (*Soc.* 83, 1325 *C.* 1904 [1] 82).
 23) Aethylester d. Amidooximidoessigsäure. Sm. 97—98° (*Soc.* 81, 1575 *C.* 1903 [1] 158).
 24) Amid d. Oximidooxyessig-N-Aethyläthersäure. Sm. 178° (*Soc.* 81, 1566 *C.* 1903 [1] 157).
 25) Hydroxylamid d. Aethylloxaminsäure. Sm. 138°. Hydroxylaminsalz (*Soc.* 81, 1572 *C.* 1903 [1] 158).
- C₄H₈O₄N₂** *1) $\alpha\alpha$ -Dinitrobutan. K (*J. pr.* [2] 67, 139 *C.* 1903 [1] 865; *G.* 33 [1] 415 *C.* 1903 [2] 551).
 *18) Amid d. d-Weinsäure. Sm. 195° u. Zers. (*Soc.* 83, 1354 *C.* 1904 [1] 84).
- C₄H₈O₄N₄** *1) Diureidoessigsäure (Allantoinsäure). Zers. bei 165° (*C. r.* 138, 426 *C.* 1904 [1] 792).
- C₄H₈O₅Cr** 1) Gem. Anhydrid d. Buttersäure u. Chromsäure (*B.* 36, 2218 *C.* 1902 [2] 420).
- C₄H₈N₂S₄** *2) Dimethyläther d. Di[Imidomerkaptomethyl]disulfid (*B.* 36, 2266 *C.* 1903 [2] 562).
- C₄H₈ON** *4) β -Oximidobutan. Sm. 152—153° (*C.* 1903 [2] 1415; *M.* 25, 337 *C.* 1904 [1] 1400).
 18) β -Nitroso- β -Methylpropan. Sm. 76—76,5° (u. Druck) (*B.* 36, 686 *C.* 1903 [1] 817).
 19) α -Amido- β -Ketobutan. (2HCl, PtCl₄) (*B.* 37, 2475 *C.* 1904 [2] 418).
- C₄H₈ON₃** 3) α -Semicarbazonpropan. Sm. 88—90° (*A.* 335, 202 *C.* 1904 [2] 1201).
 4) isom. α -Semicarbazonpropan. Sm. 154° (*A.* 335, 202 *C.* 1904 [2] 1201).
 5) Propionylguanidin. HCl, (2HCl, PtCl₄), (HCl, AuCl₃) (*Ar.* 241, 475 *C.* 1903 [2] 989).
- C₄H₈O₂N** *4) β -Nitro- β -Methylpropan. Fl. (*B.* 36, *C.* 1903 [1] 817).
 *10) l- α -Amidobuttersäure. (*C.* 1903 [2] 554).
 *11) β -Amidobuttersäure. Sm. 156° (*J. pr.* [2] 70, 204 *C.* 1904 [2] 1459).
 *14) α -Amidoisobuttersäure (*B.* 37, 1923 *C.* 1904 [2] 196).
 *22) Aethylester d. Amidoessigsäure. HCl (*A.* 327, 365 *C.* 1903 [2] 660).
 *23) Aethylester d. Methylamidoameisensäure. Sd. 79,8—80,6°_{14,5} (*B.* 36, 2476 *C.* 1903 [2] 559).
 34) α -Oximido- α -Oxybutan (Butyrhydroxamsäure). Sm. 127° (*G.* 34 [1] 432 *C.* 1904 [2] 511).
- C₄H₈O₂N₃** *10) β -Semicarbazon- α -Oxypropan. Zers. bei 195—200° (*A.* 335, 213 *C.* 1904 [2] 1202).
 12) Aethylamidoformylharnstoff. Sm. 153° (*Soc.* 81, 1572 *C.* 1903 [1] 158).
 13) γ -Semicarbazon- α -Oxypropan. Sm. 114° (*A.* 335, 220 *C.* 1904 [2] 1203).
- C₄H₈O₄Cl** 5) α -Methyläther d. β -Chlor- α - γ -Dioxypropan. Sd. 172—173°₇₃₇ (*C.* 1904 [2] 303).
- C₄H₈O₅N** *10) α -Oxamidobuttersäure. Sm. 144° (*B.* 36, 4317 *C.* 1904 [1] 449).
 20) α -Amido- β -Oxybuttersäure + $\frac{1}{2}$ H₂O. Sm. 229—230° u. Zers. NH₄, HCl (*C.* 1903 [2] 554).
 21) β -Amido- α -Oxyisobuttersäure. Sm. 276° u. Zers. HCl, (2HCl, PtCl₄) (*C.* 1903 [2] 555).
- C₄H₈O₅N₃** *1) α -Semicarbazidopropionsäure (*Am.* 28, 399 *C.* 1903 [1] 90).
 3) Aethylester d. Semicarbazidoameisensäure. Sm. 126° (P. GUTMANN, Dissert. Heidelberg 1903).
- C₄H₈O₅N** 2) Gem. Anhydrid d. Essigsäure u. Orthosalpetersäure. Hg, Ag₂ (*C.* 1903 [2] 419).
- C₄H₈O₅P** 2) Monophosphit d. Erythran. Ca + H₂O (*C. r.* 136, 1068 *C.* 1903 [1] 1297).
- C₄H₈O₅P** 1) Säure (aus Erythrit) (*C. r.* 136, 457 *C.* 1903 [1] 695).
- C₄H₈O₅N** *1) Diacetylsalpetersäure (*C.* 1903 [2] 1108).

- $C_4H_9NS_2$ *4) Isopropylester d. Amidodithioameisensäure. Sm. 97° (C. r. 135, 975 C. 1903 [1] 139).
 *5) Methylester d. Dimethylamidodithioameisensäure (C. r. 136, 452 C. 1903 [1] 699).
 7) Methylenäther d. Methyldi[Merkaptomethyl]amin (C. r. 136, 452 C. 1903 [1] 699).
 8) Propylester d. Amidodithioameisensäure. Sm. 57° (58°) (C. 1903 [1] 962; C. r. 135, 975 C. 1903 [1] 139).
- $C_4H_{10}ON_2$ *14) Hydrazid d. Buttersäure. Sm. 44° . HCl (J. pr. [2] 69, 486 C. 1904 [2] 599).
 15) 4-Amidomorpholin (Morpholyhydrazin). Sd. 168°_{767} . HCl (B. 35, 4474 C. 1903 [1] 404).
 16) Hydrazid d. Isobuttersäure. Sm. 104° (J. pr. [2] 69, 497 C. 1904 [2] 600).
- $C_4H_{10}O_2N_4$ *4) Dihydrazid d. d-Weinsäure (Soc. 83, 1363 C. 1904 [1] 84).
 $C_4H_{10}O_4S$ *6) Diäthylester d. Schwefelsäure. (Fe_2O_3 , $3SO_3 + 4H_2O$) (C. r. 137, 189 C. 1903 [2] 613).
- $C_4H_{10}O_6P_2$ 1) Verbindung (aus d. Verb. $C_4H_9O_4Cl_2P_2$) (C. r. 136, 757 C. 1903 [1] 1017).
- $C_4H_{10}NCl$ 7) β -Chlor- α -Dimethylamidoäthan. Sd. $109-110^\circ_{730}$. HCl, (HCl, $AuCl_3$) (B. 37, 3508 C. 1904 [2] 1322).
- $C_4H_{10}NBr$ *1) β -Brom- α -Amidobutan. Pikrat (B. 37, 2482 C. 1904 [2] 420).
 $C_4H_{10}ClTl$ *1) Thalliumdiäthylechlorid. Zers. bei $205-206^\circ$ (B. 37, 2057 C. 1904 [2] 20).
- $C_4H_{10}Cl_2Si$ *1) Siliciumdiäthylchlorid (C. 1904 [1] 636).
 $C_4H_{10}BrTl$ 1) Thalliumdiäthylbromid. Zers. oberh. 270° (B. 37, 2057 C. 1904 [2] 20).
- $C_4H_{10}JTl$ *1) Thalliumdiäthyljodid. Zers. bei $185-187^\circ$ (B. 37, 2057 C. 1904 [2] 20).
- $C_4H_{11}ON$ *2) β -Dimethylamido- α -Oxyäthan. (HCl, $AuCl_3$) (B. 37, 3496 C. 1904 [2] 1320).
 *5) Diäthylhydroxylamin. Sd. 76°_{58} . HCl, Oxalat (B. 36, 2316 C. 1903 [2] 421).
 *11) α -Amido- β -Oxybutan. Sd. $168,5-170^\circ_{774}$ (B. 37, 2479 C. 1904 [2] 419).
 12) β -Amidodiäthyläther. Sd. $108-109^\circ_{750}$. (HCl, $AuCl_3$) (B. 37, 3506 C. 1904 [2] 1321).
 13) β -Hydroxylamido- β -Methylpropan (tert. Butylhydroxylamin) (B. 36, 685 C. 1903 [1] 817).
- $C_4H_{11}ON_3$ 2) α -Amido- α -Methyl- β -Aethylharnstoff. HCl (B. 37, 2324 C. 1904 [2] 312).
- $C_4H_{11}OTl$ *1) Thalliumdiäthylhydroxyd. Sm. $127-128^\circ$. Salze siehe (B. 37, 2058 C. 1904 [2] 20).
- $C_4H_{11}O_2N$ *1) β -Amido- $\alpha\gamma$ -Dioxy- β -Methylpropan. HCl, ($2HCl$, $PtCl_4$) (C. 1903 [1] 816).
- $C_4H_{11}O_3P$ *1) Diäthylester d. Phosphorigen Säure. Sd. $184-186^\circ$ (C. 1903 [2] 22).
 3) Methyläthylcarbinolunterphosphorigesäure. Pb, Cu + H_2O , Ag (C. r. 136, 234 C. 1903 [1] 563; C. 1904 [2] 1708).
- $C_4H_{11}O_4P$ 5) Methyläthylcarbinolphosphinsäure. Sm. $158-159^\circ$. Ag, (C. r. 136, 235 C. 1903 [1] 564; C. 1904 [2] 1708).
- $C_4H_{11}O_6P$ 1) Phosphit d. Erythrit. (Erythrophosphorige Säure) (C. r. 136, 1068 C. 1903 [1] 1296).
- $C_4H_{11}N_3S$ *1) α -Amido- α -Methyl- β -Aethylthioharnstoff (B. 37, 2320 Anm. C. 1904 [2] 311).
- $C_4H_{11}ClS$ *1) Dimethyläthylsulfinchlorid (J. pr. [2] 66, 454 C. 1903 [1] 561).
 $C_4H_{11}STl$ 1) Thalliumdiäthylsulfhydrat (B. 37, 2057 C. 1904 [2] 20).
 $C_4H_{12}ON_2$ 3) α -Amido- β -[β -Oxyäthyl]amidoäthan. Sd. $238-240^\circ_{732}$ ($2HCl$, $PtCl_4$) (B. 35, 4470 C. 1903 [1] 403).
 C 40,0 — H 10,0 — O 26,7 — N 23,3 — M. G. 120.
 1) $\alpha\alpha$ -Di[β -Oxyäthyl]hydrazin. Sd. $188-190^\circ_{25}$ (B. 35, 4474 C. 1903 [1] 404).
- $C_4H_{12}NCl$ *1) Tetramethylammoniumchlorid. + $6HgCl_2$ (J. pr. [2] 66, 468 C. 1903 [1] 561).

- $C_4H_{12}NJ_9$ 1) Tetramethylammoniumenneajodid. Sm. 108° (*J. pr.* [2] 67, 348 *C.* 1903 [1] 1297).
- $C_4H_{12}ClP$ *1) Tetramethylphosphoniumchlorid (*C. r.* 139, 598 *C.* 1904 [2] 1451).
- $C_4H_{12}JP$ *1) Tetramethylphosphoniumjodid. + J_2 (*C. r.* 139, 598 *C.* 1904 [2] 1451).
- $C_4H_{18}O_6N_4$ 1) Verbindung (aus Dimethylviolursäure). Sm. 239—240° u. Zers. (*Soc.* 83, 23 *C.* 1903 [1] 448).

— 4 IV —

- $C_4HNCIBr_3$ 1) Chlortribrompyrrol. Sm. 96—100° u. Zers. (*G.* 32 [2] 315 *C.* 1903 [1] 587).
- $C_4HNCI_2Br_2$ 1) Dichlordibrompyrrol. Sm. 100° (*G.* 32 [2] 317 *C.* 1903 [1] 587).
- C_4HNCI_3Br 1) 2, 3, 5-Trichlor-4-Brompyrrol. Zers. bei 115° (*G.* 34 [2] 178 *C.* 1904 [2] 994).
- $C_4H_2O_2NCl$ *2) Imid d. Chlormaleinsäure. Sm. 130° (*G.* 34 [1] 416 *C.* 1904 [2] 452).
- $C_4H_2O_4N_2S$ 3) 1,2,3-Thiodiazol-4,5-Dicarbonsäure + H_2O . Sm. 98° (oberh. 110° wasserfrei) (*A.* 333, 8 *C.* 1904 [2] 780).
- $C_4H_2O_2NCl_4$ 1) Gem. Imid d. Chloressigsäure u. Trichloressigsäure. Sm. 80° (*J. pr.* [2] 69, 13 *C.* 1904 [1] 639).
- $C_4H_2O_2N_2Br$ 1) 5-Brom-2,4-Diketo-1,2,3,4-Tetrahydro-1,3-Diazin (Bromuracil). Sm. 293° (*Am.* 29, 486 *C.* 1903 [1] 1309).
- $C_4H_2O_3NBr_3S$ 1) Amid d. 2,5-Dibromfuran-3-Sulfonsäure. Sm. 153,5°. K, Ag (*Am.* 32, 227 *C.* 1904 [2] 1140).
- $C_4H_2O_7NHg_3$ 1) Verbindung (aus d. Verb. $C_6H_6O_6Hg_3$) (*B.* 36, 3708 *C.* 1903 [2] 1240).
- $C_4H_2ON_2S_3$ *1) 5-Acetylido-3-Thiocarbonyl-4,5-Dihydro-1,2,4-Dithioazol (Acetylisopersulfocycansäure) (*A.* 331, 295 *C.* 1904 [2] 32).
- $C_4H_4ON_3Cl$ 1) 6-Chlor-4-Amido-2-Keto-1,2-Dihydro-1,3-Diazin. Sm. noch nicht bei 300° (*Am.* 32, 348 *C.* 1904 [2] 1414).
- $C_4H_4ON_3Br$ 1) 5-Brom-4-Amido-2-Keto-1,2-Dihydro-1,3-Diazin. Zers. oberh. 235° (*Am.* 31, 604 *C.* 1904 [2] 243).
- 2) 5-Brom-2-Amido-4-Keto-3,4-Dihydro-1,3-Diazin. Sm. 273° u. Zers. (*Am.* 29, 504 *C.* 1903 [1] 1311).
- $C_4H_4ON_3J$ 1) 6-Jod-2-Amido-4-Oxy-1,3-Diazin. Zers. bei 241° (*B.* 36, 2230 *C.* 1903 [2] 448).
- $C_4H_4O_2NCl_3$ 2) Gem. Imid d. Chloressigsäure u. Dichloressigsäure. Sm. 98° (*J. pr.* [2] 69, 12 *C.* 1904 [1] 639).
- $C_4H_4O_2N_2S$ 4) 5-Methyl-1,2,3-Thiodiazol-4-Carbonsäure + H_2O . Sm. 75° (113° wasserfrei) (*A.* 325, 177 *C.* 1903 [1] 646; *A.* 333, 6 *C.* 1904 [2] 780).
- $C_4H_4O_2N_2S$ 1) 5-Oximido-6-Imido-2-Thiocarbonyl-4-Ketohexahydro-1,3-Diazin + $\frac{1}{2}H_2O$ (*A.* 331, 73 *C.* 1904 [1] 1200).
- $C_4H_4O_7N_2S$ 1) 5-Oxy-2,4,6-Triketohexahydro-1,3-Diazin-5-Sulfonsäure (Alloxansulfid). (NH_4)₂, K₂ + H_2O , Dimethylaminsalz (*A.* 333, 94 *C.* 1904 [2] 829).
- $C_4H_4ONS_2$ 2) 2-Thiocarbonyl-4-Keto-3-Methyltetrahydrothiazol. Sm. 72° (*M.* 25, 167 *C.* 1904 [1] 894).
- $C_4H_4ON_3S$ 4) 6-Amido-2-Thiocarbonyl-4-Keto-1,2,3,4-Tetrahydro-1,3-Diazin + H_2O (*A.* 331, 71 *C.* 1904 [1] 1199).
- $C_4H_5OCl_3Br_2$ *1) Äthyläther d. $\alpha\beta\beta$ -Trichlor- $\alpha\beta$ -Dibrom- α -Oxyäthan. Sd. 124—129°₂₅₋₃₀ (*G.* 33 [2] 386 *C.* 1904 [1] 921).
- $C_4H_5O_2NCl_2$ 1) Imid d. Chloressigsäure. Sm. 189° u. Zers. (195°) (*J. pr.* [2] 69, 11 *C.* 1904 [1] 639; *J. pr.* [2] 69, 353 *C.* 1904 [2] 510).
- $C_4H_5O_2N_3Se$ 1) Selencyanacetylarnstoff. Sm. 178—179° u. Zers. (*Ar.* 241, 181 *C.* 1903 [2] 103).
- $C_4H_5O_6N_3S$ *1) Thionursäure (*A.* 333, 98 *C.* 1904 [2] 829).
- $C_4H_5N_2Cl_2Br$ 1) Verbindung (aus Chloressigsäurenitril u. HBr). Sm. 143° u. Zers. (*J. pr.* [2] 69, 356 *C.* 1904 [2] 510).
- C_4H_5ONBr 2) Nitril d. γ -Brom- β -Oxybuttersäure. Sd. 149—150°₁₂ (*C. r.* 136, 1265 *C.* 1903 [2] 106).
- 3) Amid d. γ -Bromcrotonsäure. Sm. 110° (*C. r.* 138, 1050 *C.* 1904 [1] 1481).
- $C_4H_5ON_2F_4$ 1) Di[$\beta\beta$ -Difluoräthyl]nitrosamin. Sd. 178,6°₇₅₅ (*C.* 1904 [2] 945).

- $\text{C}_4\text{H}_6\text{ON}_2\text{Se}$ 1) 2-Imido-4-Keto-5-Methyltetrahydroselenazol (α -Methylselenhydantoïn). Sm. 179° (*Ar.* 241, 197 *C.* 1903 [2] 103).
 $\text{C}_4\text{H}_6\text{ON}_2\text{S}$ 3) 5,6-Diamido-2-Thiocarbonyl-4-Keto-1,2,3,4-Tetrahydro-1,3-Diazin (*A.* 331, 74 *C.* 1904 [1] 1200).
 $\text{C}_4\text{H}_6\text{O}_2\text{NCl}$ 3) Gem. Imid d. Essigsäure u. Chloressigsäure. Sm. 105—106° (*J. pr.* [2] 69, 15 *C.* 1904 [1] 640).
 $\text{C}_4\text{H}_6\text{O}_2\text{ClBr}$ 3) γ -Chlor- β -Brombuttersäure. Sm. 49—50° (*C. r.* 136, 1266 *C.* 1903 [2] 106; *C. r.* 138, 1051 *C.* 1904 [1] 1482).
 $\text{C}_4\text{H}_6\text{O}_2\text{BrF}$ *1) Aethylester der Bromfluoressigsäure. Sd. 154° (*C.* 1903 [1] 12).
 $\text{C}_4\text{H}_6\text{O}_2\text{JF}$ 1) Aethylester d. Jodfluoressigsäure. Sd. 180° u. ger. Zers. (*C.* 1903 [1] 13).
 $\text{C}_4\text{H}_7\text{ONBr}_2$ 3) Amid d. $\beta\gamma$ -Dibrombuttersäure. Sm. 86° (*C. r.* 138, 1050 *C.* 1904 [1] 1481).
 $\text{C}_4\text{H}_7\text{ONS}_2$ *2) Methylester d. Acetylamidodithioameisensäure. Sm. 119° (*Bl.* [3] 29, 51 *C.* 1903 [1] 446).
 $\text{C}_4\text{H}_7\text{OCIF}_2$ 1) Aethyläther d. α -Chlor- $\beta\beta$ -Difluor- α -Oxyäthan. Sd. 90° (*C.* 1903 [1] 13).
 $\text{C}_4\text{H}_7\text{OCl}_2\text{F}$ 1) Aethyläther d. $\beta\beta$ -Dichlor- α -Fluor- α -Oxyäthan. Sd. 121° (*C.* 1903 [1] 13).
 $\text{C}_4\text{H}_7\text{O}_2\text{NS}$ *1) Aethylester d. Thiooxaminsäure (*B.* 37, 3721 *C.* 1904 [2] 1450).
 $\text{C}_4\text{H}_7\text{O}_2\text{N}_2\text{Br}$ 1) α -Brompropionylharnstoff. Sm. 162° (*Ar.* 241, 195 *C.* 1903 [2] 103).
 $\text{C}_4\text{H}_7\text{O}_2\text{BrHg}$ 1) Acetat d. Quecksilber- β -Oxyäthylbromid. Sm. 75° (*A.* 329, 188 *C.* 1903 [2] 1414).
 $\text{C}_4\text{H}_7\text{N}_2\text{ClS}$ 3) Chlormethylat d. 5-Methyl-1,2,3-Thiodiazol. 2 + PtCl_4 , + AuCl_3 (*A.* 333, 17 *C.* 1904 [2] 781).
 $\text{C}_4\text{H}_7\text{N}_2\text{JS}$ 2) Jodmethylat d. 5-Methyl-1,2,3-Thiodiazol. Sm. 76—77° (*A.* 333, 16 *C.* 1904 [2] 781).
 $\text{C}_4\text{H}_8\text{ON}_2\text{S}$ 3) Methylhydroxyd d. 5-Methyl-1,2,3-Thiodiazol. Salze siehe (*A.* 333, 16 *C.* 1904 [2] 781).
 $\text{C}_4\text{H}_8\text{ON}_2\text{S}_2$ 2) Dimethyläther d. Dimerkaptomethylenharnstoff. Zers. bei 217° (*A.* 331, 288 *C.* 1904 [2] 31).
 $\text{C}_4\text{H}_8\text{O}_2\text{NCl}$ 4) α -Chlor- β -Nitro- β -Methylpropan. Sd. 181—185° (*C.* 1904 [1] 1479).
 $\text{C}_4\text{H}_8\text{O}_2\text{N}_2\text{S}$ *2) Aethylester d. Thioharnstoffcarbonsäure (*Ac.* d. Thiopseudoallophanensäure). HCl (*Soc.* 83, 566 *C.* 1903 [1] 1123).
 $\text{C}_4\text{H}_8\text{O}_2\text{Cl}_2\text{P}_2$ 1) Verbindung (aus $\alpha\beta$ -Dioxyäthan u. PCl_3) (*C. r.* 136, 756 *C.* 1903 [1] 1017).
 $\text{C}_4\text{H}_8\text{O}_2\text{ClS}$ *2) Dimethylthetinchlorid. + 6 HgCl_2 (*J. pr.* [2] 66, 465 *C.* 1903 [1] 561).
 $\text{C}_4\text{H}_{10}\text{NCl}_2\text{P}$ *1) Diäthylamidodichlorphosphin. Sd. 189° (*A.* 326, 154 *C.* 1903 [1] 761).
 2) Isobutylamidodichlorphosphin. Sd. 101°₁₀ (*A.* 326, 150 *C.* 1903 [1] 760).
 $\text{C}_4\text{H}_{10}\text{NCl}_4\text{P}$ 1) Diäthylamidophosphortetrachlorid. + PCl_5 (*A.* 326, 160 *C.* 1903 [1] 761).
 $\text{C}_4\text{H}_{13}\text{O}_2\text{N}_2\text{P}$ 1) Amid-Diäthylmonamid d. Phosphorsäure? Sm. 144° (*A.* 326, 191 *C.* 1903 [1] 820).

- $\text{C}_4\text{HO}_2\text{NClBr}$ 1) Imid d. Chlorbrommaleinsäure. Sm. 196° (*G.* 32 [2] 127 *C.* 1904 [2] 993).
 $\text{C}_4\text{H}_5\text{O}_2\text{NClBr}$ 1) Gem. Imid d. Chloressigsäure u. Bromessigsäure. Sm. 180° u. Zers. (*J. pr.* [2] 69, 14 *C.* 1904 [1] 640).
 $\text{C}_4\text{H}_{10}\text{ONCl}_2\text{P}$ *1) Diäthylmonamid d. Phosphorsäuredichlorid. Sd. 220° (*A.* 326, 181 *C.* 1903 [1] 819).
 2) Isobutylmonamid d. Phosphorsäuredichlorid. Sd. 141°₁₄ (*A.* 326, 174 *C.* 1903 [1] 819).
 $\text{C}_4\text{H}_{10}\text{ONBr}_2\text{P}$ 1) Diäthylmonamid d. Phosphorsäuredibromid. Fl. (*A.* 326, 194 *C.* 1903 [1] 820).
 $\text{C}_4\text{H}_{10}\text{NCl}_2\text{SP}$ *1) Diäthylmonamid d. Thiophosphorsäuredichlorid. Sd. 107°₁₄ (*A.* 326, 211 *C.* 1903 [1] 822).
 2) Isobutylmonamid d. Thiophosphorsäuredichlorid. Sd. 251° (*A.* 326, 204 *C.* 1903 [1] 821).

$C_4H_{10}NBr_2SP$ 1) Diäthylmonamid d. Thiophosphorsäuredibromid. Fl. (A. 326, 216 C. 1903 [1] 822).

— 4 VI —

$C_4H_5O_3NClBrS$ 1) Amid d. 5-Chlor-2-Bromfuran-3-Sulfonsäure. Sm. 134—135° K, Ag (Am. 32, 216 C. 1904 [2] 1140).

C_5 -Gruppe.

- C_5H_6 *1) Cyklopentadien (B. 35, 4151 C. 1903 [1] 159).
 5) polym. Cyklopentadien (B. 35, 4152 C. 1903 [1] 159).
 C_5H_8 *7) $\alpha\gamma$ -Pentadien (C. 1904 [2] 183).
 16) $\beta\gamma$ -Pentadien. Sd. 49—51° (C. 1904 [1] 577).
 17) 1-Methylen-R-Tetramethylen? Sd. 43°₇₂₇ (C. 1903 [1] 828).
 18) Kohlenwasserstoff (aus *Asclepias syriaca* L.) = $(C_5H_8)_x$ (J. pr. [2] 68, 393 C. 1904 [1] 105).
 C_5H_{10} *1) α -Penten (G. 33 [1] 77 C. 1903 [1] 1109).
 *2) β -Penten (C. 1903 [2] 339).
 *4) γ -Methyl- α -Buten (B. 36, 2004 C. 1903 [2] 336).
 *5) Trimethyläthylen (B. 36, 2016 C. 1903 [2] 337).
 *8) 1,1-Dimethyl-R-Trimethylen (B. 36, 2015 C. 1903 [2] 337).

— 5 II —

- $C_5H_4O_2$ *2) 1,4-Pyron. HCl, 2 + (HCl, $AuCl_3$), 3 + (HCl, $AuCl_3$), Oxalat, 2 + $CaCl_2$, + $HgCl_2$, 4 + ($AgNO_3$), + CH_3OK , + C_2H_5ONa (B. 37, 3745 C. 1904 [2] 1538).
 $C_5H_4O_3$ *2) Isobrenzschleimsäure. Sm. 92°; Sd. 102°₁₅. Hydroxylaminsalz, Phenylhydrazinsalz (Bl. (3) 29, 337 C. 1903 [1] 1217; C. r. 136, 50 C. 1903 [1] 443; Bl. [3] 29, 406 C. 1903 [1] 1302).
 *5) Anhydrid d. Itakonsäure (B. 37, 3969 C. 1904 [2] 1604).
 C_5H_5N *1) Pyridin. Sd. 115,2°₈₀. 2 + 3 $HgCl_2$ (Am. 29, 2 C. 1903 [1] 524; A. 326, 314 C. 1903 [1] 1088; C. r. 136, 1557 C. 1903 [2] 384; B. 37, 559 C. 1904 [1] 873).
 $C_5H_5N_5$ *1) Adenin + H_2O (A. 331, 86 C. 1904 [1] 1200).
 $C_5H_6O_8$ *4) Andhydrid d. i-Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 32,5—34,5° (37°) Sd. 244—248° (238—240°) (C. 1903 [2] 288; Soc. 85, 542 C. 1904 [1] 1485).
 7) Anhydrid d. r-Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 67—68° (C. 1903 [2] 288).
 $C_5H_6O_4$ *8) R-Trimethylen-1,1-Dicarbonsäure. Sm. 140—141° (Soc. 83, 1379 C. 1904 [1] 162, 437).
 *9) mal. (cis)-R-Trimethylen-1,2-Dicarbonsäure. Ag_2 (Soc. 83, 1379 C. 1904 [1] 162, 437).
 *10) fum. [trans]-R-Trimethylen-1,2-Dicarbonsäure. Sm. 175°. Ag_2 (Soc. 83, 1379 C. 1904 [1] 162, 437; B. 36, 3786 C. 1904 [1] 43; B. 37, 2105 C. 1904 [2] 104).
 $C_5H_8O_5$ 9) Methylenester d. Aepfelsäure (R. 21, 315 C. 1903 [1] 137).
 $C_5H_8O_6$ 4) Monoformal-d-Weinsäure. Sm. 160°. Ba + 2 H_2O (R. 21, 313 C. 1903 [1] 137).
 5) Monoformal-l-Weinsäure. Sm. 159—161°. Ba + 2 H_2O (R. 21, 314 C. 1903 [1] 137).
 6) Monoformal-i-Weinsäure. Sm. 135°. Ba (R. 21, 314 C. 1903 [1] 137).
 7) Monoformaltraubensäure. Sm. 148°. Ba + 2 H_2O (R. 21, 314 C. 1903 [1] 137).
 $C_5H_6N_2$ 11) 2-Methyl-1,3-Diazin. Sm. —5°; Sd. 138°₇₃₈ (B. 37, 3642 C. 1904 [2] 1416).
 C_5H_7N *1) 1-Methylpyrrol. Sd. 112—112,5°₇₂₀ (B. 37, 2792 C. 1904 [2] 531).
 *2) 2-Methylpyrrol. Sd. 144,5—145,5° (G. 33 [2] 267 C. 1904 [1] 40; B. 37, 2793 C. 1904 [2] 531).
 $C_5H_7N_3$ 4) 4-Amido-2-Methyl-1,3-Diazin. Sm. 205°. HNO_3 (B. 37, 3642 C. 1904 [2] 1416).

- C_6H_8O *7) Acetyl-R-Trimethylen (*B. 36*, 1379 *C. 1903* [1] 1416; *B. 36*, 1795 *C. 1903* [2] 282).
- $C_6H_8O_2$ *1) $\beta\gamma$ -Diketopentan. *Sd.* 108° (*Bl. [3]* 31, 1174 *C. 1904* [2] 1701).
 *2) Acetylacetone. $SnCl_4$ -Verbindung. $TiCl_4$, $(FeCl_3, TiCl_3)$, $(PtCl_4, TiCl_3)$ (*B. 36*, 929 *C. 1903* [1] 1025; *B. 36*, 1834 *C. 1903* [2] 191; *B. 37*, 589 *C. 1904* [1] 867; *A. 331*, 336 *C. 1904* [1] 1593; *B. 37*, 3450 *C. 1904* [2] 1274).
 *4) α -Buten- α -Carbonsäure. *Sm.* 7—9°; *Sd.* 100—102°_{13.5} (*B. 35*, 4267 *C. 1903* [1] 280; *A. 334*, 205 *C. 1904* [2] 884).
 *6) Angelikasäure (*Bl. [3]* 29, 327 *C. 1903* [1] 1225).
 *7) α -Buten- δ -Carbonsäure (*A. 334*, 206 *C. 1904* [2] 884).
 *8) β -Buten- α -Carbonsäure. *Ba* (*A. 331*, 138 *C. 1904* [1] 933; *A. 334*, 206 *C. 1904* [2] 884).
 *9) Tiglinsäure (*Bl. [3]* 29, 330 *C. 1903* [1] 1226).
 *10) β -Methylpropen- α -Carbonsäure (*M. 24*, 769 *C. 1904* [1] 158).
 *13) Lakton d. γ -Oxyvaleriansäure (*C. 1903* [2] 288).
 *14) Lakton d. δ -Oxyvaleriansäure. *Sd.* 113—114°₁₃₋₁₄ (218—220°) (*B. 36*, 1200 *C. 1903* [1] 1175; *B. 37*, 1857 *C. 1904* [1] 1487).
 *18) Aldehyd d. β -Ketobutan- δ -Carbonsäure (*B. 36*, 1934 *C. 1903* [2] 189).
 *21) Äthylester d. Akrylsäure (*Bl. [3]* 29, 1044 *C. 1903* [2] 1424).
 *24) Verbindung (aus δ -Oxy- α -Methylglutarsäure). *Sd.* 222—226°₅₈ (*B. 36*, 1202 *C. 1903* [1] 1175).
 27) polym. Lakton d. δ -Oxyvaleriansäure. = $(C_5H_8O_2)_x$. *Sm.* 47—48° (*B. 36*, 1200 *C. 1903* [1] 1175).
 $C_6H_8O_3$ *6) α -Ketobutan- α -Carbonsäure. *Sd.* 179°. $Ca + 2H_2O$, $Ba + H_2O$, Ag (*A. 331*, 129 *C. 1904* [1] 932).
 *8) Lävulinsäure. $Ca + 2H_2O$ (*A. 331*, 108 *C. 1904* [1] 931; *B. 37*, 2710 *C. 1904* [2] 528).
 *14) $\alpha\gamma$ -Lakton d. $\beta\gamma$ -Dioxybutan- α -Carbonsäure? *Fl.* (*A. 334*, 92 *C. 1904* [2] 887).
 28) Monoformal- α -Oxybuttersäure. *Sd.* 164° (*R. 21*, 318 *C. 1903* [1] 137).
 29) Monoformal- β -Oxybuttersäure. *Sm.* 9°; *Sd.* 190° (*R. 21*, 318 *C. 1903* [1] 137).
 30) Monoformal- α -Oxyisobuttersäure. *Sd.* 142° (*R. 21*, 318 *C. 1903* [1] 137).
 31) $\alpha\gamma$ -Lakton d. $\alpha\gamma$ -Dioxybutan- α -Carbonsäure. *Fl.* (*A. 334*, 88 *C. 1904* [2] 887).
 32) Aldehyd d. r - α -Acetoxypropionsäure. *Sd.* 52—55°₁₅ (*A. 335*, 266 *C. 1904* [2] 1284).
 $C_6H_8O_4$ *1) α -Acetoxypropionsäure. *Sm.* 57—60°; *Sd.* 127°₁₁ (*B. 36*, 468 *C. 1903* [1] 626; *B. 37*, 3972 *C. 1904* [2] 1605).
 *4) Propan- $\alpha\alpha$ -Dicarbonsäure (*C. 1903* [2] 1330).
 *5) Brenzweinsäure (*C. 1903* [2] 712).
 *6) Glutarsäure (*C. 1903* [2] 1053, 1330).
 *14) Diacetat d. Dioxymethan (*C. 1903* [2] 656).
 *16) $\gamma\gamma$ -Dioxy- $\beta\delta$ -Diketopentan. Ba_3 , $Pb + H_2O$ (*B. 36*, 3225 *C. 1903* [2] 940).
 19) r -Propan- $\alpha\beta$ -Dicarbonsäure. *Sm.* 112,5—113,5° (*C. 1903* [2] 288).
 20) Monomethylester d. Bernsteinsäure. *Sm.* 57—58°; *Sd.* 151°₂₀. Ag (*Bl. [3]* 29, 1046 *C. 1903* [2] 1424; *Soc. 85*, 539 *C. 1904* [1] 1484).
 $C_6H_8O_5$ *5) r - β -Oxypropan- $\alpha\beta$ -Dicarbonsäure. *Sm.* 116—117° (*B. 35*, 4370 *C. 1903* [1] 281).
 *9) β -Oxypropan- $\alpha\gamma$ -Dicarbonsäure. *Sm.* 95° (*Bl. [3]* 29, 1014 *C. 1903* [2] 1315).
 $C_6H_8O_6$ *6) Monomethylester d. d-Weinsäure. *K.* (*Soc. 85*, 1122 *C. 1904* [2] 1206).
 8) Dimethylester d. Dioxymethandicarbonsäure. *Sm.* 81° (77,5°) (*C. r.* 137, 198 *C. 1903* [2] 659; *B. 37*, 1781 *C. 1904* [1] 1483).
 $C_6H_8O_7$ *6) d - $\alpha\beta\gamma$ -Trioxypropan- $\alpha\gamma$ -Dicarbonsäure (*B. 36*, 3201 *C. 1903* [2] 1055).
 $C_6H_8N_2$ *4) 1,2-Dimethylimidazol. *Sd.* 205—206° (2HCl, $PtCl_4$), (HCl, $AuCl_3$), Pikrat (*Soc. 83*, 469 *C. 1903* [1] 931, 1143).
 7) Methyläthyläzathan. *Sm.* 206° (*B. 36*, 3186 *C. 1903* [2] 939).
 8) 1,3-Dimethylpyrazol. *Sd.* 148°. HCl, (2HCl, $PtCl_4$), (HCl, $AuCl_3$ + 2H₂O) (*Soc. 83*, 467 *C. 1903* [1] 931, 1143).

- C₅H₈N₂** 9) 4,5-Dimethylpyrazol. Sm. 55—57° (*C.* 1903 [2] 1324).
 10) 4-[oder 5]-Aethylimidazol. Fl. (HCl, AuCl₃), HNO₃, Pikrat (*B.* 37, 2477 *C.* 1904 [2] 419).
 11) 1,4-[oder 1,5]-Dimethylimidazol. Sd. 210—215°. (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (*Soe.* 83, 443 *C.* 1903 [1] 930, 1143).
 12) isom. 1,4-[oder 1,5]-Dimethylimidazol. Sd. 116°₂₅. HCl, (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (*Soe.* 83, 465 *C.* 1903 [1] 931, 1143).
 13) Nitril d. α -Aethylidenamidopropionsäure. Sd. 152° (*Bl.* [3] 29, 1185 *C.* 1904 [1] 354).
- C₅H₈Br₂** 9) 1-Brom-1-Brommethyl-R-Tetramethylen? Sd. 192—193° (*C.* 1903 [1] 828).
- C₅H₈Br₄** *2) $\alpha\beta\gamma\delta$ -Tetrabrompentan. Sm. 41,5—43° (*C.* 1904 [2] 183).
- C₅H₈N** *2) 5-Methyl-2,3-Dihydropyrrrol. Sd. 42—45°_{95—100} (*G.* 33 [2] 314 *C.* 1904 [1] 292).
- C₅H₈N₄** *7) Nitril d. β -Methylpropan- α -Carbonsäure (*C.* 1904 [2] 665).
 1) Verbindung (aus d. Verb. C₅H₁₀ON₃). = (C₅H₈N₄)_x. Sm. 147° u. Zers. (*B.* 36, 1298 *C.* 1903 [1] 1256).
- C₅H₈Br** *1) Brom-R-Pentamethylen. Sd. 135—138°₇₄₃ (*C.* 1903 [1] 828).
 5) $\beta\gamma\gamma$ -Tribrom- β -Methylbutan (*B.* 37, 548 *C.* 1904 [1] 866).
- C₅H₁₀O** *14) Pentan- $\alpha\delta$ -Oxyd. Sd. 77,5—78°₇₄₀ (*M.* 23, 1087 *C.* 1903 [1] 384; *M.* 24, 354 *C.* 1903 [2] 552).
 *15) Pentan- $\alpha\epsilon$ -Oxyd. Sd. 81—82° (*M.* 23, 1073 *C.* 1903 [1] 393).
 *17) β -Methylbutan- $\beta\gamma$ -Oxyd (*B.* 36, 2018 *C.* 1903 [2] 338).
 *21) β -Ketopentan (*Bl.* [3] 29, 673 *C.* 1903 [2] 487; *C. r.* 137, 576 *C.* 1903 [2] 1110).
 *22) γ -Ketopentan (*C. r.* 137, 576 *C.* 1903 [2] 1110).
 *23) γ -Keto- β -Methylbutan. Sd. 93—94° (*Bl.* [3] 29, 674 *C.* 1903 [2] 487).
 *24) Aldehyd d. Valeriansäure. Sd. 101—102° (*C. r.* 138, 698 *C.* 1904 [1] 1066).
 *26) Aldehyd d. Isovaleriansäure. + Anilinsulfit, + Anilinanhydrosulfit (*A.* 325, 356 *C.* 1903 [1] 696; *C. r.* 137, 989 *C.* 1904 [1] 257; *M.* 25, 150 *C.* 1904 [1] 1000).
- C₅H₁₀O₂** *33) 1-Oxymethyl-R-Tetramethylen. Sd. 139°₄₇ (*C.* 1903 [1] 828).
 *7) ϵ -Oxy- β -Ketopentan (*M.* 24, 351 *C.* 1903 [2] 551).
 *14) 1-Butan- β -Carbonsäure (*B.* 37, 352 *C.* 1904 [1] 579).
 *15) Isovaleriansäure. NH₄ (*M.* 23, 1053 *C.* 1903 [1] 387).
 *21) Aethylester d. Propionsäure (*Bl.* [3] 29, 1044 *C.* 1903 [2] 1424).
- C₅H₁₀O₃** *1) Aethylidenäther d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 85°₁₅ (*A.* 335, 214 *C.* 1904 [2] 1202).
 *2) α -Oxyvaleriansäure. Sm. 34°. Ca, Zn + 2H₂O (*A.* 331, 132 *C.* 1904 [1] 932).
 *10) β -Oxy- β -Methylpropan- α -Carbonsäure. Ag (*M.* 24, 768 *C.* 1904 [1] 158).
 *32) α -Oxy- β -Methylpropan- β -Carbonsäure. Sm. 124° (123°) NH₄, Na, K, Ca + 1½H₂O (*Bl.* [3] 31, 119 *C.* 1904 [2] 664; *M.* 25, 869 *C.* 1904 [2] 1106).
 *35) Aethylester d. β -Oxypropionsäure. Sd. 187° (170—175°) (*Bl.* [3] 29, 1044 *C.* 1903 [2] 1424; *B.* 37, 1276 *C.* 1904 [1] 1335).
 38) α -Acetat d. $\alpha\beta$ -Dioxypropan. Sd. 182—183°₇₆₀ (*C.* 1903 [2] 486).
 *2) $\beta\gamma$ -Dioxybutan- α -Carbonsäure? Ca, Ba + H₂O, Ag (*A.* 334, 94 *C.* 1904 [2] 887).
 *7) Aethylester d. $\alpha\beta$ -Dioxypropionsäure. Sd. 200° (*B.* 37, 1277 *C.* 1904 [1] 1335).
- C₅H₁₀O₄** 13) Parasaccharopentose. Sm. 81,5—82° (*B.* 37, 1200 *C.* 1904 [1] 1197).
 14) $\alpha\gamma$ -Dioxybutan- α -Carbonsäure. Ca, Ba, Zn (*A.* 334, 90 *C.* 1904 [2] 887).
- C₅H₁₀O₅** *1) d-Arabinose (*B.* 36, 1194 *C.* 1903 [1] 1217).
 *2) l-Arabinose (*B.* 36, 1194 *C.* 1903 [1] 1217; *B.* 37, 1210 *C.* 1904 [1] 1337).
- C₅H₁₀N₂** *4) 2-Methyl-1,4,5,6-Tetrahydro-1,3-Diazin. Sm. 72—74°; Sd. 120—126°₁₃ (2HCl, PtCl₄), HNO₃, Oxalat, Pikrat, harnsaures Salz (*B.* 36, 334 *C.* 1903 [1] 703).
 8) $\alpha\gamma$ -Di[Methylenamido]propan. Fl. (*B.* 36, 36 *C.* 1903 [1] 502).
 9) Nitril d. α -Aethylamidopropionsäure. Sd. 153—154° (*C.* 1904 [2] 945).

- $C_5H_{10}N_2$ 10) Nitril d. α -Dimethylamidopropionsäure. Sd. 144° (C. 1904 [2] 945).
 $C_5H_{10}Cl_2$ *2) $\beta\gamma$ -Dichlor- β -Methylbutan (M. 23, 1082 C. 1903 [1] 384).
 *5) $\gamma\delta$ -Dichlor- β -Methylbutan. Sd. 142–145° (M. 23, 1079 C. 1903 [1] 384).
 *11) $\beta\gamma$ -Dichlorpentantan. Sd. 50–51°₂₀ (M. 23, 1085 C. 1903 [1] 384).
 12) $\alpha\delta$ -Dichlorpentantan. Sd. 58–60°₁₅ (M. 23, 1088 C. 1903 [1] 384).
 13) $\alpha\epsilon$ -Dichlorpentantan. Sd. 176–178° u. Zers. (B. 37, 2918 C. 1904 [2] 1237).
 $C_5H_{10}Br_2$ *2) $\alpha\delta$ -Dibrompentantan. Sd. 99°₁₄ (M. 23, 1086 C. 1903 [1] 384).
 *3) $\alpha\epsilon$ -Dibrompentantan. Sm. —34 bis —35°; Sd. 221°₇₅₃ (M. 23, 1071 C. 1903 [1] 393; C. r. 138, 1611 C. 1904 [2] 429; B. 37, 3210 C. 1904 [2] 1238).
 *5) $\beta\gamma$ -Dibrompentantan. Sd. 74°₁₇ (M. 23, 1083 C. 1903 [1] 384).
 *8) $\beta\gamma$ -Dibrom- β -Methylbutan. Sd. 61–64°₁₇ (M. 23, 1081 C. 1903 [1] 384).
 *10) $\gamma\delta$ -Dibrom- β -Methylbutan (M. 23, 1077 C. 1903 [1] 384).
 15) $\beta\delta$ -Dibrompentantan. Sd. 63,5° (C. 1904 [1] 1327).
 $C_5H_{10}J_2$ *2) $\alpha\epsilon$ -Dijodpentantan. Sm. 9°; Sd. 149°₂₀ (C. r. 138, 1611 C. 1904 [2] 429).
 $C_5H_{11}N$ *9) 1-Amidomethyl- β -Tetramethylen. Sd. 110°₇₅₃ (82–83°) (C. 1903 [1] 825).
 *11) 2-Methyltetrahydropyrrol. Sd. 95°₄₂₂. (HCl, AuCl₃) (G. 33 [2] 267 C. 1904 [1] 40; G. 33 [2] 314 C. 1904 [1] 292).
 $C_5H_{11}Cl$ *13) Piperidin. + P₁₀H₄ (B. 36, 993 C. 1903 [1] 1072).
 $C_5H_{11}Br$ *6) γ -Chlor- β -Methylbutan (C. 1904 [2] 691).
 *4) β -Brom- β -Methylbutan (C. 1904 [2] 691).
 *5) γ -Brom- β -Methylbutan (C. 1904 [2] 691).
 *6) δ -Brom- β -Methylbutan (C. 1904 [2] 691).
 $C_5H_{11}J$ 9) d- α -Brom- β -Methylbutan. Sd. 118–120° (B. 37, 1046 C. 1904 [1] 1248).
 *6) γ -Jod- β -Methylbutan (C. 1904 [2] 691).
 9) d-Jod- β -Methylbutan. Sd. 147° cor. (Bl. [3] 31, 600 C. 1904 [2] 19).
 $C_5H_{12}O$ 9) d- α -Jod- β -Methylbutan (B. 37, 1045 C. 1904 [1] 1248).
 *1) α -Oxypentantan (M. 25, 1090 C. 1904 [2] 1698).
 *2) β -Oxypentantan. Sd. 118° (C. r. 137, 302 C. 1903 [2] 708).
 *3) γ -Oxypentantan. Sd. 116° (C. r. 137, 302 C. 1903 [2] 708).
 *4) l- α -Oxy- β -Methylbutan. Sd. 126–128° (M. 25, 1098 C. 1904 [2] 1698).
 *7) Isoamylalkohol (C. r. 137, 302 C. 1903 [2] 708; M. 24, 533 C. 1903 [2] 869; Bl. [3] 31, 599 C. 1904 [2] 18).
 *8) α -Oxy- β -Dimethylpropan (M. 25, 1094 C. 1904 [2] 1698).
 16) Methyläther d. β -Oxy- β -Methylpropan. Sd. 53–54° (C. 1903 [1] 1119; 1904 [1] 1065).
 $C_5H_{12}O_2$ *1) $\alpha\delta$ -Dioxypentantan. Sd. 115–116°₁₄ (M. 23, 1088 C. 1903 [1] 384; M. 24, 533 C. 1903 [2] 551).
 *3) $\beta\gamma$ -Dioxypentantan. Sd. 96,5–97°₁₇ (M. 23, 1084 C. 1903 [1] 384).
 *4) $\beta\delta$ -Dioxypentantan. Sd. 197° (C. 1904 [1] 1327).
 *5) $\alpha\beta$ -Dioxy- β -Methylbutan. Sd. 186–189° (C. r. 137, 757 C. 1903 [2] 1415).
 $C_5H_{12}O_4$ *1) Pentaerythrit (B. 36, 1349 C. 1903 [1] 1299).
 $C_5H_{12}N_2$ 7) 3,5-Dimethyltetrahydropyrazol. Sm. —5 bis —7°; Sd. 141–143°₇₁₈. HCl, H₂SO₄, Pikrat, + Aceton (B. 36, 221 C. 1903 [1] 522).
 $C_5H_{12}S$ *3) Aethylpropylsulfid. Sd. 117°₇₄₅ (J. pr. [2] 66, 527 C. 1903 [1] 561).
 *4) Aethylpropylsulfid. Sd. 106–107° (J. pr. [2] 66, 526 C. 1903 [1] 561).
 $C_5H_{13}N$ *3) γ -Amidopentantan (B. 36, 703 C. 1903 [1] 818).
 *4) β -Amido- β -Methylbutan (B. 36, 692 C. 1903 [1] 817).
 *6) Isoamylamin. Salze siehe (C. r. 135, 902 C. 1903 [1] 131).
 *11) Aethylisopropylamin. (2HCl, PtCl₄) (C. 1904 [1] 923).
 *13) Methylidiäthylamin. (2HCl, PtCl₄) (C. 1904 [1] 923).
 16) d- α -Amido- β -Methylbutan. Sd. 95,5–96°. HCl, (2HCl, PtCl₄) (B. 37, 1047 C. 1904 [1] 1248).
 $C_5H_{14}N_2$ *1) $\alpha\epsilon$ -Diamidopentantan (Cadaverin, Musculamin). 2HCl, (2HCl, PtCl₄) (C. r. 135, 699 C. 1902 [2] 1365; C. r. 135, 865 C. 1903 [1] 46; C. r. 136, 1285 C. 1903 [2] 127; B. 37, 3587 C. 1904 [2] 1407).
 *3) stab. $\beta\delta$ -Diamidopentantan. Fl. (B. 36, 224 C. 1903 [1] 522).
 *9) Spermin (C. r. 135, 1141 C. 1903 [1] 274).
 $C_5H_{14}Sn$ *1) Zinntrimethyläthyl. Sd. 107–108°₇₅₃ (C. 1904 [1] 353).

- $C_6H_8O_4N_4$ C 33,0 — H 1,1 — O 35,1 — N 30,8 — M. G. 182.
 1) Verbindung (aus β -Nitroisoxazol). Ag (*Am.* 29, 273 *C.* 1903 [1] 958).
- $C_6H_8O_4Cl_6$ 1) Methylenester d. Trichloressigsäure. Sm. 76° (*C. r.* 136, 1566 *C.* 1903 [2] 342).
- $C_6H_8O_2Cl$ *2) Chlorid d. Furan-2-Carbonsäure. Sd. 173° (*B.* 37, 2951 *C.* 1904 [2] 992).
- $C_6H_8O_3Br$ 6) Bromisobrenzschleimsäure. Sm. 172°. Hydroxylaminsalz, Phenylhydrazinsalz (*C. r.* 136, 49 *C.* 1903 [1] 443).
- $C_6H_8NCl_4$ 1) 2,3,4,5-Tetrachlor-1-Methylpyrrol. Sm. 118—119° (*G.* 34 [1] 259 *C.* 1904 [2] 120).
- $C_6H_4ON_4$ *1) Hypoxanthin (*A.* 331, 78 *C.* 1904 [1] 1200).
- $C_6H_4O_2N_2$ 6) polym. Nitropyridin. Zers. bei 234° (*C.* 1903 [1] 1033).
 7) 1,3-Diazin-5-Carbonsäure. Sm. 270° (*B.* 37, 3650 *C.* 1904 [2] 1513).
- $C_6H_4O_2N_4$ *1) Xanthin (D.R.P. 143725 *C.* 1903 [2] 474).
- $C_6H_4O_3N_4$ *1) Harnsäure (*J. pr.* [2] 67, 274 *C.* 1903 [1] 1218; *G.* 33 [2] 93, 98 *C.* 1903 [2] 1287).
- $C_6H_4O_3Br_2$ *5) $\alpha\gamma$ -Lakton d. $\alpha\beta$ -Dibrom- $\gamma\gamma$ -Dioxypropen- γ -Methyläther- α -Carbonsäure. Sm. 51°; Sd. 249—251° (*M.* 25, 493 *C.* 1904 [2] 324).
 6) Methylester d. $\alpha\beta$ -Dibromäthen- α -Carbonsäure- β -Carbonsäurealdehyd (M. d. Mukobromsäure). Sd. 230—234° (*M.* 25, 493 *C.* 1904 [2] 324).
- $C_6H_4O_4N_2$ *7) Imidazol-4,5-Dicarbonsäure (*B.* 37, 701 *C.* 1904 [1] 1562).
 10) Amid d. β -Nitrofuran-2-Carbonsäure. Sm. 180° (*C. r.* 137, 520 *C.* 1903 [2] 1069).
- C_6H_4NCl *2) 3-Chlorpyridin. Sd. 147—149°. (2HCl, PtCl₄) (*B.* 37, 3835 *C.* 1904 [2] 1615).
- $C_6H_4NCl_3$ 1) 2,3,5-Trichlor-1-Methylpyrrol. Fl. (*G.* 34 [1] 257 *C.* 1904 [2] 120).
- C_6H_5ON *3) 4-Oxypyridin. $\frac{1}{2}HCl + H_2O$, $\frac{1}{2}HBr + H_2O$, $\frac{1}{2}HJ + H_2O$ (*C.* 1903 [1] 167; *J. pr.* [2] 67, 47 *C.* 1903 [1] 723).
- $C_6H_5O_2N$ *16) Imid d. Citrakonsäure. Sm. 109° (*C.* 1903 [1] 538).
 21) polym. Cyanmethylenearbonsäureäthylester. Sm. 122° (*Am.* 30, 463 *C.* 1904 [1] 378).
- $C_6H_5O_3Br$ 3) Verbindung (aus β -Brom- α -Keto- β -Buten- $\alpha\gamma$ -Dicarbonsäure). Sm. 95° (*R.* 23, 149 *C.* 1904 [2] 193).
- $C_6H_5O_4N_3$ 11) Nitril d. α -Nitro- β -Acetoximidopropionsäure. Sm. 87—88° (*Am.* 29, 265 *C.* 1903 [1] 958).
- $C_6H_5O_6N$ C 34,3 — H 2,8 — O 54,9 — N 8,0 — M. G. 175.
 1) α -Methylester d. α -Nitroäthen- $\alpha\beta$ -Dicarbonsäure (α -M. d. Nitromaleinsäure). K (*Am.* 32, 233 *C.* 1904 [2] 1141).
- $C_6H_5N_2Cl$ 2) 4-Chlor-2-Methyl-1,3-Diazin. Sm. 59—60°; Sd. 168°₇₆₅. HCl (*B.* 37, 3641 *C.* 1904 [2] 1416).
- $C_6H_5N_5S$ 1) 6-Amido-2-Merkaptopurin + H₂O (*A.* 331, 84 *C.* 1904 [1] 1200).
- $C_6H_5ON_2$ 10) 4-Keto-2-Methyl-3,4-Dihydro-1,3-Diazin + $1\frac{1}{2}H_2O$. Sm. 212° (wasserfrei). (2HCl, PtCl₄) (*B.* 37, 3640 *C.* 1904 [2] 1416).
- $C_6H_6O_2N_2$ *5) 2,4-Diketo-5-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin (Thymin). Sm. 326° (*Am.* 29, 487 *C.* 1903 [1] 1309; *H.* 39, 134 *C.* 1903 [2] 581).
 *11) 4-Methylpyrazol-3[5]-Carbonsäure. Sm. 218—220° (*B.* 36, 1132 *C.* 1903 [1] 1139).
 13) 4-Acetyl-5-Methyl-1,2,3-Oxdiazol. Fl. (*A.* 325, 139 *C.* 1903 [1] 644).
 14) 1-Methylpyrazol-3-Carbonsäure. Sm. 222° (*Soe.* 83, 469 *C.* 1903 [1] 931, 1143).
- $C_6H_6O_3N_2$ *1) Dimethylparabansäure. Sm. 149—150° (*A.* 327, 261 *C.* 1903 [2] 349).
 *5) 2,4,6-Triketo-5-Methylhexahydro-1,3-Diazin. Sm. 202—203°. Na + 5H₂O (D.R.P. 146948 *C.* 1904 [1] 68; *A.* 335, 355 *C.* 1904 [2] 1381).
- 20) 2,4-Diketo-1-Acetyltetrahydroimidazol + H₂O. Sm. 143—144° (*A.* 327, 374 *C.* 1903 [2] 661; *A.* 333, 130 *C.* 1904 [2] 895).
- $C_6H_6O_4N_4$ *3) Pseudoharnsäure. K + 2H₂O (*A.* 333, 79 *C.* 1904 [2] 826).
- $C_6H_6O_4Cl_2$ 5) Methylenester d. Chloressigsäure. Sm. 52—53° (*C. r.* 136, 1566 *C.* 1903 [2] 342).
- $C_6H_6N_2Br_2$ 1) 4,5-Dibrom-1,3-Dimethylpyrazol. Sm. 74° (*Soe.* 83, 469 *C.* 1903 [1] 931, 1143).

- $C_5H_8N_2Br_2$ 2) 2,4[oder 2,5]-Dibrom-1,4 oder 1,5]-Dimethylimidazol. Sm. 127° (*Sox.* 83 466 *C.* 1903 [1] 931, 1143).
- C_5H_7ON *4) 3,5-Dimethylisoxazol (*B.* 36, 220 *C.* 1903 [1] 522).
- $C_5H_7ON_3$ 6) Anhydriacetylguanidin. Sm. 210—212°. $HCl + H_2O$, (2HCl, $PtCl_4$), $HBr + H_2O$, Mg, Ag (*Ar.* 241, 451 *C.* 1903 [2] 988).
- 7) 4-Nitroso-3,5-Dimethylpyrazol. Sm. 128° (*A.* 325, 193 *C.* 1903 [1] 647).
- 8) Methyläther d. 2-Amido-4-Oxy-1,3-Diazin. Sm. 118,5—120°; Sd. 274°₇₅₄. (2HCl, $PtCl_4$) (*B.* 36, 3382 *C.* 1903 [2] 1193).
- 9) 4-Amido-2-Keto-5-Methyl-1,2-Dihydro-1,3-Diazin(5-Methyleytosin). Sm. 270°. $HCl + 2H_2O$, 5 + 3HCl + H_2O , Pikrat (*Am.* 31, 599 *C.* 1904 [2] 242).
- 10) 2-Amido-4-Keto-5-Methyl-3,4-Dihydro-1,3-Diazin. Sm. 320—321°. HCl , (2HCl, $PtCl_4 + 4H_2O$), H_2SO_4 , Pikrat (*Am.* 32, 135 *C.* 1904 [2] 956).
- $C_5H_7O_2N$ *4) Nitril d. α -Acetoxypropionsäure. Sd. 172—173°₇₀₀ (*B.* 37, 3974 *C.* 1904 [2] 1605).
- *9) Methylimid d. Bernsteinsäure. Sm. 66—67° (*C.* 1903 [1] 841).
- 12) Nitril d. Propionoxylessigsäure. Sd. 188—189°₇₅₀ (*C.* 1904 [2] 1377).
- $C_5H_7O_2N_3$ 12) 4-Nitro-3,5-Dimethylpyrazol. Sm. 124—126° (*A.* 325, 193 *C.* 1903 [1] 647).
- 13) Methyläther d. 6-Imido-2-Oxy-4-Keto-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. 228—229° (*D.R.P.* 155732 *C.* 1904 [2] 1631).
- $C_5H_7O_2Br$ 9) β -Brom- β -Buten- α -Carbonsäure. Sm. 54° (*A.* 331, 138 *C.* 1904 [1] 932).
- 10) Aethylester d. β -Bromakrylsäure (*M.* 25, 784 *C.* 1904 [2] 1122).
- $C_5H_7O_3N_3$ *9) 5-Methylamido-2,4,6-Triketohexahydro-1,3-Diazin (*A.* 333, 64 *C.* 1904 [2] 772).
- 11) 5-Amido-2,4,6-Triketo-5-Methylhexahydro-1,3-Diazin. Sm. 237° u. Zers. (*A.* 335, 359 *C.* 1904 [2] 1382).
- $C_5H_7O_3N_5$ 2) 1-Ureido-5-Methyl-1-Triazol-4-Carbonsäure. Zers. bei 205° (*A.* 325, 161 *C.* 1903 [1] 645).
- $C_5H_7O_3Cl$ 6) Acetat d. γ -Chlor- β -Keto- α -Oxypropan. Sd. 108—109°₁₂ (*C.* 1904 [1] 576).
- 7) Chlorid d. α -Acetoxypropionsäure. Sd. 56°₁₁ (150°₇₀₀) (*B.* 36, 468 *C.* 1903 [1] 626; *B.* 37, 3973 *C.* 1904 [2] 1605).
- $C_5H_7O_4N_3$ 4) 1-Nitro-2,4-Diketo-3-Aethyltetrahydroimidazol. Sm. 95—96° (*A.* 327, 379 *C.* 1903 [2] 662).
- $C_5H_7O_4Br$ *4) Citrabrombrenzweinsäure (*B.* 35, 4370 *C.* 1903 [1] 281).
- $C_5H_7O_4N$ *5) Dimethylester d. Oximidomethandicarbonsäure. Sm. 67°; Sd. 168°₁₈, Na (*C.r.* 137, 198 *C.* 1903 [2] 659).
- $C_5H_7O_5N$ *1) Dimethylester d. Nitromalonsäure. Dimethylaminsalz (*B.* 37, 1783 *C.* 1904 [1] 1483).
- 2) β -Nitro- α -Acetoxypropionsäure. Sm. 90—91°. Ag (*Am.* 32, 239 *C.* 1904 [2] 1141).
- $C_5H_7N_3J$ 3) Pyridinjodamid (*C.r.* 136, 1471 *C.* 1903 [2] 296).
- $C_5H_7ON_2$ *2) 5-Keto-3,4-Dimethyl-4,5-Dihydropyrazol. Sm. 256° (268°) (*Bl.* [3] 27, 1103 *C.* 1903 [1] 227; *B.* 37, 2834 *C.* 1904 [2] 642).
- 11) 2-Oxy-4[oder 5]-Aethylimidazol. Sm. 166—167° (*B.* 37, 2478 *C.* 1904 [2] 419).
- 12) Nitril d. α -Acetylamidopropionsäure. Sm. 102° (*Bl.* [3] 29, 1193 *C.* 1904 [1] 361).
- $C_5H_8O_2N_2$ 19) 2,4-Diketo-3-Aethyltetrahydroimidazol. Sm. 102° (*A.* 327, 378 *C.* 1903 [2] 662).
- 20) 3,6-Diketo-2-Methylhexahydro-1,4-Diazin (Methyldiacipiperazin). Sm. 238—239° u. Zers. (*B.* 36, 2113 *C.* 1903 [2] 345).
- 21) Methyl ester d. α -Diazobuttersäure. Sd. 54—56°₁₂ (*B.* 37, 1275 *C.* 1904 [1] 1334).
- 22) Aethylester d. α -Diazopropionsäure. Sd. 65—68°₁₁ (*B.* 37, 1269 *C.* 1904 [1] 1334).
- $C_5H_8O_2N_4$ 9) 1-Oxy-4-[α -Oximidoäthyl]-5-Methyl-1,2,3-Triazol. Zers. bei 213° (*A.* 325, 168 *C.* 1903 [1] 645).
- $C_5H_8O_2N_6$ 2) 3,5-Diureidopyrazol (*B.* 37, 3525 *C.* 1904 [2] 1314).
- 3) 5-Oxy-4-[α -Semicarbazonoäthyl]-1,2,3-Triazol. Sm. 201° u. Zers. (*A.* 325, 156 *C.* 1903 [1] 644).

- $C_5H_8O_2Br_2$ *3) $\beta\gamma$ -Dibrombutan- α -Carbonsäure. Sm. 65—65,5° (A. 331, 140 C. 1904 [1] 933).
- 13) $\alpha\delta$ -Dibrombutan- α -Carbonsäure. Sd. 171—174₁₃₋₁₅ (B. 37, 2843 C. 1904 [2] 643).
- $C_5H_8O_5N_2$ 6) $\gamma\delta$ -Dioximido- β -Ketopentan. Sm. 128° u. Zers. (A. 325, 194 C. 1903 [1] 647).
- 7) Aethylester d. β -Oxy- α -Diazopropionsäure (B. 37, 1278 C. 1904 [1] 1335).
- $C_5H_8O_5N_4$ *2) 5-Ureido-2,4-Diketo-3-Methyltetrahydroimidazol + H_2O . Sm. 219—221° (A. 333, 138 C. 1904 [2] 896).
- $C_5H_8O_5N_2$ 6) β -Amid d. β -Amidoäthan- $\alpha\beta$ -Tricarbonsäure. Sm. 120° (A. 332, 121 C. 1904 [2] 189).
- $C_5H_8O_6N_4$ *1) Uroxansäure. $K + 3H_2O$ (H. 41, 342 C. 1904 [1] 1338; A. 333, 153 C. 1904 [2] 897).
- $C_5H_8N_2S$ 6) 2-Merkapto-4[oder 5]-Aethylimidazol. Sm. noch nicht bei 265° (B. 37, 2476 C. 1904 [2] 419).
- $C_5H_8N_2S_4$ 1) Methylenäther d. Di[Methylimidomerkaptomethyl]disulfid. Sm. 118° (B. 36, 2270 C. 1903 [2] 563).
- $C_5H_8N_4S$ 1) Methyläther d. 4,6-Diamido-2-Merkapto-1,3-Diazin. Sm. 185—186° (Am. 32, 349 C. 1904 [2] 1414).
- C_5H_9ON *6) Oximido-R-Pentamethylen (C. 1903 [1] 828).
- *7) α -Oximidoäthyl-R-Trimethylen. Sm. 50—55°. HCl (B. 36, 1380).
- 26) polym. γ -Nitroso- β -Methyl- β -Buten. Sm. 145° (B. 37, 543 C. 1904 [1] 865).
- $C_5H_9ON_3$ 6) 5-Imido-2-Keto-4,4-Dimethyltetrahydroimidazol + H_2O . Sm. 230° u. Zers. (wasserfrei) (B. 36, 1292 C. 1903 [1] 1255).
- 7) Amid d. 5-Methyl-4,5-Dihydropyrazol-1-Carbonsäure. Sm. 198° (A. 335, 222 C. 1904 [2] 1203).
- 8) Verbindung (aus d. Verb. $C_5H_9N_4$). Sm. 140° u. Zers. (B. 36, 1298 C. 1903 [1] 1256).
- $C_5H_9O_2N$ *4) γ -Oximido- β -Ketopentan. Sm. 58—59° (Soc. 83, 43 C. 1903 [1] 442).
- *19) r-Tetrahydropyrrol-2-Carbonsäure. Sm. 203—203,5° (207°). $Cu + 2H_2O$, HCl , $(HCl, AuCl_3)$ (A. 326, 104 C. 1903 [1] 842; H. 39, 89 C. 1903 [2] 580; H. 39, 157 C. 1903 [2] 580).
- 23) Säure (aus Gelatine). $Cu + H_2O$ (H. 41, 99 C. 1904 [1] 1015).
- $C_5H_9O_2N_3$ 4) Diacetylguanidin. Sm. 152°. Acetat (Ar. 241, 464 C. 1903 [2] 988).
- 5) 5-Imido-2-Keto-3-Oxy-4,4-Dimethyltetrahydroimidazol. Sm. 230° u. Zers. HCl (B. 34, 1875; B. 36, 1286 C. 1903 [1] 1254).
- 6) 3,5-Dioxy-6,6-Dimethyl-1,6-Dihydro-1,2,4-Triazin. Sm. 230° (Am. 28, 402 C. 1903 [1] 91).
- 7) cis- α -Guanidylpropen- β -Carbonsäure. Sm. 319—320° (Am. 32, 140 C. 1904 [2] 957).
- 8) trans- α -Guanidylpropen- β -Carbonsäure. Sm. 329—332° (Am. 32, 138 C. 1904 [2] 956).
- $C_5H_9O_2Cl$ *8) Aethylester d. i- α -Chlorpropionsäure. Sd. 145—146° (B. 37, 1272 C. 1904 [1] 1334).
- *19) β -Chlorpropylester d. Essigsäure. Sd. 152—153₇₅₀° (C. 1903 [2] 486; R. 22, 209 C. 1903 [2] 22).
- $C_5H_9O_2Br$ 19) α -Brom- β -Methylpropan- β -Carbonsäure. Sm. 40,5—41°; Sd. 143 bis 145₉₃ (Bl. [3] 31, 155 C. 1904 [1] 868).
- $C_5H_9O_2J$ *5) Aethylester d. β -Jodpropionsäure (J. pr. [2] 68, 345 C. 1903 [2] 1317).
- $C_5H_9O_3N$ *2) α -Oximidovaleriansäure. Sm. 155° u. Zers. (Bl. [3] 31, 1073 C. 1904 [2] 1457).
- *19) α -Acetylamidopropionsäure. Sm. 137,5° (B. 36, 2114 C. 1903 [2] 346).
- *21) α -Oximidoisovaleriansäure. Sm. 171—172° u. Zers. (Bl. [3] 31, 1072 C. 1904 [2] 1457).
- *22) p-Oxytetrahydropyrrol-2-Carbonsäure (H. 39, 157 C. 1903 [2] 580).
- $C_5H_9O_3N_3$ *2) Di[Methylamid] d. Oximidomalonsäure. Sm. 157°. K, Fe (Soc. 83, 33 C. 1903 [1] 73, 441; Soc. 83, 21 C. 1903 [1] 77, 448).
- *4) Amid d. Oximidomalonäthyläthersäure. Sm. 150,5—151,5° (M. 25, 74, 81 C. 1904 [1] 1552).

- $C_5H_9O_3N_3$ 6) Methylester d. α -Semicarbazonpropionsäure. Sm. 208° (*Am.* 28, 398 *C.* 1903 [1] 90).
- $C_5H_9O_4N$ *2) d-Glutaminsäure. $Zn + 2H_2O$ (*H.* 38, 114 *C.* 1903 [1] 1423; *C.* 1903 [2] 792, 1054).
- *11) N-Aethylester d. Amidomethancarbonsäure-N-Carbonsäure (Carbäthoxylglycin). Sm. 75° (*B.* 36, 2108 *C.* 1903 [2] 345).
- 24) Aethylester d. α -Nitropropionsäure. Sd. 190—195° (*C.* 1903 [2] 343).
- 25) Methyläthylester d. Stickstoffdicarbonsäure. Sm. 73°; Sd. 117—124°₁₀ (*B.* 37, 3673 *C.* 1904 [2] 1494).
- 26) α -Amid d. β -Oxypropan- $\alpha\beta$ -Dicarbonsäure. Sm. 139—141° (*B.* 35, 4370 *C.* 1903 [1] 281).
- 27) α -Amid d. γ -Oxypropan- $\alpha\beta$ -Dicarbonsäure (β -Itamalaminsäure). Sm. 118—120°. NH_4 , Ag (*B.* 35, 4376 *C.* 1903 [1] 281).
- 28) Methylmonamid d. d-Weinsäure. Methylaminsalz (*Soc.* 83, 1360 *C.* 1904 [1] 84).
- $C_5H_9O_4N_3$ 5) Aethylester d. Nitrosoureidoessigsäure. Sm. 66—67° (*A.* 327, 367 *C.* 1903 [2] 660).
- $C_5H_9O_6N_3$ 2) $\beta\gamma\delta$ -Trinitro- β -Methylbutan. Sm. 189—190° (*C.* 1903 [1] 625).
- C_5H_9NS *9) d-sec. Butylsenfö. Sd. 159° (*B.* 36, 584 *C.* 1903 [1] 696).
- 11) l-sec. Butylsenfö. Sd. 159° (*B.* 36, 584 *C.* 1903 [1] 696).
- 12) Allylamid d. Thioessigsäure. Sd. 135—136°₁₇ (*B.* 37, 877 *C.* 1904 [1] 1004).
- $C_5H_9N_3S$ 4) α -Methyl- β -[α -Cyanäthyl]thioharnstoff. Fl. (*Bl.* [3] 29, 1194 *C.* 1904 [1] 361).
- $C_5H_9ON_4$ *4) Porphyrin. (2,4-Diimido-1-Oxy-5,5-Dimethyltetrahydroimidazol) (*B.* 36, 1284 *C.* 1903 [1] 1254).
- 5) Verbindung (aus Porphyrin). Sm. 160° u. Zers. $Na + 4H_2O$ (*B.* 36, 1297 *C.* 1903 [1] 1256).
- $C_5H_{10}O_2N_2$ *4) $\beta\delta$ -Dioximidopentan. Sm. 149—150° (*B.* 36, 220 *C.* 1903 [1] 521; *B.* 37, 3316 *C.* 1904 [2] 1026).
- *14) Amid d. Propan- $\beta\beta$ -Dicarbonsäure. Sm. 263° (*Soc.* 83, 1241 *C.* 1903 [2] 1421).
- *16) Di[Methylamid] d. Malonsäure. Sm. 135° (*Soc.* 83, 33 *C.* 1903 [1] 441).
- $C_5H_{10}O_2N_4$ 6) γ -Oximido- β -Semicarbazonbutan. Sm. 303° u. Zers. (*Bl.* [3] 31, 1165 *C.* 1904 [2] 1700).
- $C_5H_{10}O_2Cl_2$ 6) Methyläthyläther d. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. Sd. 173—175° (*G.* 33 [2] 415 *C.* 1904 [1] 922).
- $C_5H_{10}O_3N_2$ *7) Aethylester d. Aethylnitrosamidoameisensäure. Sd. 69—70°₁₅ (*B.* 36, 2478 *C.* 1903 [2] 559; *B.* 36, 3635 *C.* 1903 [2] 1331; *B.* 36, 4295 *C.* 1904 [1] 507).
- *17) Aethylester d. Ureidoessigsäure. Sm. 135° (*A.* 327, 366 *C.* 1903 [2] 660).
- *18) Trimethyläthylennitrosit (*B.* 35, 4120 *C.* 1903 [1] 278; *B.* 36, 1765 *C.* 1903 [2] 100).
- 20) α -Amidoacetylamidopropionsäure. Sm. 227° u. Zers. (*B.* 37, 2491 *C.* 1904 [2] 424).
- 21) Aethylester d. Amidooxymethylamidoameisenmethyläthersäure (O-Methylcarbäthoxyisoharnstoff). Sm. 5°. HCl (*C.* 1904 [2] 29).
- 22) Aethylester d. α -Acetylhydrazin- β -Carbonsäure. Sm. 90° (P. GUTMANN, Dissert., Heidelberg 1903).
- 23) Amid d. Amidoessigsäure-N-Carbonsäureäthylester (Carbäthoxylglycinamid). Sm. 101—103,5° (*B.* 36, 2109 *C.* 1903 [2] 345).
- $C_5H_{10}O_3N_4$ 4) Amid d. Ureidoacetylamidoessigsäure (α -Carbamidoglycylglycinamid). Sm. 210° u. Zers. (*B.* 36, 2098 *C.* 1903 [1] 1304).
- 5) isom. Amid d. Ureidoacetylamidoessigsäure (β -Carbamidoglycylglycinamid). Sm. 246° u. Zers. (*B.* 36, 2098 *C.* 1903 [1] 1304).
- $C_5H_{10}O_4N_2$ *10) Trimethyläthylennitrosat (*B.* 36, 1765 *C.* 1903 [2] 100).
- 11) $\beta\gamma$ -Dinitro- β -Methylbutan. Sd. 105—110°_{0,012} (*C.* 1903 [1] 625).
- 12) β -Diamidopropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 238° (*B.* 37, 1596 *C.* 1904 [1] 1449; *H.* 42, 282 *C.* 1904 [2] 958).
- 13) Dimethylester d. Methylendi[Amidoameisensäure]. Sm. 125° (*B.* 36, 2207 *C.* 1903 [2] 423).
- $C_5H_{10}N_2S$ 7) Methyläther d. Allylamidoimidomerkaptomethan. HCl, Pikrat (*Soc.* 83, 556 *C.* 1903 [1] 1123).

- $C_5H_{10}N_2S_2$ *1) Dimethylformcarbothialdin (*C. r.* 136, 452 *C. 1903* [1] 699).
 5) isom. Carbothialdin (*C. r.* 136, 452 *C. 1903* [1] 699).
 6) Pentamethylendiamindisulfin (*C. r.* 136, 452 *C. 1903* [1] 699).
- $C_5H_{10}Br_2S_2$ *1) Diäthyläther d. Dibromdimerkaptomethan. Sm. 68° u. Zers. (*C. 1903* [1] 19).
- $C_5H_{11}ON$ *21) β -Nitroso- β -Methylbutan. Sm. 50—50,5° (*B. 36*, 693 *C. 1903* [1] 817).
 27) α -Oximidopentan. Sm. 52° (*C. r.* 138, 698 *C. 1904* [1] 1066).
 28) Piperidin-*N*-Oxyd (Aldehyd d. δ -Amidovaleriansäure?). Sm. 39°; Sd. 110—111°₃₅. HCl (*B. 25*, 2781; *26*, 2991; *31*, 1560; *32*, 2513; *Bl.* [3] 19, 616; *B. 37*, 3229 *C. 1904* [2] 1152). — *I.* 949; **I.* 480.
 29) Amid d. i-Butan- β -Carbonsäure. Sm. 112°; Sd. 230°₇₄₅ (*M. 25*, 1097 *C. 1904* [2] 1698).
 30) Isobutylamid d. Ameisensäure. Sd. 111°₁₂ (*B. 36*, 2475 *C. 1903* [2] 559).
- $C_5H_{11}ON_3$
 $C_5H_{11}OCl$
 $C_5H_{11}O_2N$ 3) α -Semicarbazonbutan. Sm. 126° (*Bl.* [3] 31, 305 *C. 1904* [1] 1133).
 9) δ -Chlor- α -Oxypentan? Sd. 70—80°₁₂ (*M. 24*, 353 *C. 1903* [2] 551).
 *2) β -Nitro- β -Methylbutan. Sd. 149—150° (*C. 1903* [1] 625; *B. 36*, 694 *C. 1903* [1] 817).
 *5) Nitrit d. δ -Oxy- β -Methylbutan (*C. r.* 136, 1564 *C. 1903* [2] 339).
 *9) α -Amidovaleriansäure. Sm. 281—282° (*H. 40*, 566 *C. 1904* [1] 591).
 *16) α -Aethylamidopropionsäure (*Bl.* [3] 29, 1200 *C. 1904* [1] 354; *C. 1904* [2] 945).
 *18) Trimethylamidoessigsäure (Betaïn). (*HJ, J₅*) (*C. 1903* [2] 24; *1904* [2] 950).
 *26) Aethylester d. Aethylamidoameisensäure. Sd. 74—75°₁₄ (*B. 36*, 2476 *C. 1903* [2] 559).
 *28) Isobutylester d. Amidoameisensäure. Sm. 64—65° (*B. 36*, 2475 *C. 1903* [2] 559).
 46) isom. Amidovaleriansäure (aus Pankreas) (*H. 41*, 395 *C. 1904* [2] 137).
 47) Methylester d. α -Amidobuttersäure. HCl (*B. 37*, 1274 *C. 1904* [1] 1334).
- $C_5H_{11}O_2N_2$ 8) 4-Ureidomorpholin. Sm. 218° u. Zers. (*B. 35*, 4477 *C. 1903* [1] 404).
- $C_5H_{11}O_2Cl$ *1) α -Aethyläther d. γ -Chlor- $\alpha\beta$ -Dioxypropan. Sd. 85—88°₃₀ (*A. 335*, 240 *C. 1904* [2] 1204).
- $C_5H_{11}O_3N$ *5) Nitrat d. δ -Oxy- β -Methylbutan. Sd. 147—148° (*C. r.* 136, 1563 *C. 1903* [2] 338).
 18) 3-Keto-2-[3,4-Dioxybenzyliden]-2,3-Dihydroindol (*C. 1903* [1] 34).
 19) Amidooxyvaleriansäure + H_2O . Sm. 125° (*C. 1904* [1] 260).
- $C_5H_{11}O_3N_3$ 4) α -Semicarbazidoisobuttersäure. Sm. 194° u. Zers. (*Am. 28*, 401 *C. 1903* [1] 90).
 5) Methylester d. α -Semicarbazidopropionsäure. Sm. 100° (*Am. 28*, 398 *C. 1903* [1] 90).
- $C_5H_{11}NS_2$ *1) Dimethyläther d. Aethylimidodimerkaptomethan (*C. r.* 136, 452 *C. 1903* [1] 699).
 *4) Diäthylamidodithioameisensäure. Diäthylaminsalz (*B. 37*, 3235 *C. 1904* [2] 1153).
 *6) Aethylester d. Dimethylamidodithioameisensäure (*C. r.* 136, 452 *C. 1903* [1] 699).
 7) Diäthyläther d. Imidodimerkaptomethan. Sm. 33°. *HJ* (*C. 1903* [1] 19; *C. r.* 135, 976 *C. 1903* [1] 139; *Bl.* [3] 29, 54 *C. 1903* [1] 446).
- $C_5H_{11}N_3S$ 2) α -Amido- α -Methyl- β -Allylthioharnstoff. Sm. 57° (*B. 37*, 2321 *C. 1904* [2] 311).
- $C_5H_{12}ON_2$ 17) d-sec. Butylharnstoff. Sm. 166° (*Ar. 242*, 69 *C. 1904* [1] 999).
 $C_5H_{12}O_2N_2$ *6) r- $\alpha\delta$ -Diamidovaleriansäure (*C. 1903* [2] 35).
 10) $\gamma\delta$ -Diamidovaleriansäure. (2HCl, PtCl₄) (*C. 1904* [1] 260).
 11) Aethylester d. $\alpha\beta$ -Diamidopropionsäure. 2HCl (*B. 37*, 1278 *C. 1904* [1] 1335).
- $C_5H_{12}O_4S$ *5) d- β -Methylbutylschwefelsäure. Ba + 2H₂O (*B. 37*, 1041 *C. 1904* [1] 1248).
 6) p-Oxy- β -Methylbutan-p-Sulfonsäure. Ba + 2H₂O (*C. 1903* [2] 1164).
 7) Aethylisopropylester d. Schwefelsäure. Sd. 105°₁₅ (*Am. 30*, 220 *C. 1903* [2] 937).
- $C_5H_{12}NCl$ *1) ϵ -Chlor- α -Amidopentan. HCl, (2HCl, PtCl₄) (*B. 37*, 2918 *C. 1904* [2] 1237).

- $C_5H_{12}N_2S$ 11) d-sec. Butylthioharnstoff. Sm. 137° (*Ar.* 242, 59 *C.* 1904 [1] 998).
- $C_5H_{13}ON$ 16) β -Hydroxylamido- β -Methylbutan (tert. Amylhydroxylamin) (*B.* 36, 692 *C.* 1903 [1] 817).
- $C_5H_{13}O_3P$ 5) Säure (aus Methylpropylketon). Fl. Pb (*C. r.* 136, 509 *C.* 1903 [1] 773).
- $C_5H_{13}O_4N$ 6) Säure (aus Diäthylketon). Fl. Pb (*C. r.* 137, 124 *C.* 1903 [2] 553).
- 1) ϵ -Amido- $\alpha\beta\gamma\delta$ -Tetraoxypentan (Arabinamin). Sm. 98—99°. HCl, (2 HCl, PtCl₂), HJ, Pikrat, Oxalat (*C. r.* 136, 1079 *C.* 1903 [1] 1305; *C.* 1904 [1] 579).
- 2) isom. ϵ -Amido- $\alpha\beta\gamma\delta$ -Tetraoxypentan (Xylamin). Fl. HCl, HJ (*C. r.* 136, 1081 *C.* 1903 [1] 1305; *C.* 1904 [1] 579).
- $C_5H_{13}O_4P$ *1) α -Oxyisoamylphosphinsäure. Sm. 191° (*C. r.* 136, 48 *C.* 1903 [1] 439).
- 5) Oxyphosphinsäure (aus d. Säure $C_5H_{13}O_3P$). Sm. 108° (*C. r.* 137, 124 *C.* 1903 [2] 554).
- 6) Säure (aus Acetaldehyd). Sm. 132° (*C. r.* 138, 1709 *C.* 1904 [2] 423).
- 7) Säure (aus d. Säure $C_5H_{13}O_3P$). Sm. 139—140° (*C. r.* 136, 509 *C.* 1903 [1] 773).
- $C_5H_{13}NBr_2$ *1) Trimethyl- β -Bromäthylammoniumbromid. Sm. 230—231° *B.* 36, 2902 *C.* 1903 [2] 986).
- $C_5H_{13}NP_4$ 1) Verbindung (aus Piperidin u. Phosphorwasserstoff) (*B.* 36, 4205 *C.* 1904 [1] 247).
- C_5H_9ClS *1) Methyl-diäthylsulfinchlorid (*J. pr.* [2] 66, 454 *C.* 1903 [1] 561).
- $C_5H_{14}O_2N_2$ C 44,8 — H 10,4 — O 23,9 — N 20,9 — M. G. 134.
- 1) Sepsin. H_2SO_4 (*C.* 1904 [2] 119).
- $C_5H_{14}NJ_9$ *1) Trimethyläthylammoniumnonajodid. Sm. 67° (*J. pr.* [2] 67, 349 *C.* 1903 [1] 1297).
- $C_5H_{15}O_2N$ *1) Cholin (*H.* 39, 162 *C.* 1903 [2] 591; *H.* 39, 526 *C.* 1903 [2] 1254; *A.* 330, 374 *C.* 1904 [1] 870).
- 5 IV —
- $C_5H_2ONCl_3$ 3) 2,3,5-Trichlor-4-Oxypyridin. Sm. 216—217° (*Soc.* 83, 400 *C.* 1903 [1] 1141).
- $C_5H_2O_4NCl$ 1) Chlorid d. 2-Nitrofuran-2-Carbonsäure. Sm. 38° (*C. r.* 137, 520 1903 [2] 1069).
- $C_5H_3O_2NCl_2$ 3) Methylimid d. Dichlormaleinsäure. Sm. 86° (*G.* 34 [1] 259 *C.* 1904 [2] 120; *G.* 34 [1] 489 *C.* 1904 [2] 453).
- $C_5H_3O_2NBr_2$ *2) 3,4-Dibrompyrrol-2-Carbonsäure + H_2O . Sm. 110° (158° wasserfrei) (*B.* 37, 2800 *C.* 1904 [2] 533).
- $C_5H_2NCl_3Br$ 1) 2,3,5-Trichlor-4-Brom-1-Methylpyrrol. Sm. 120° (*G.* 34 [1] 485 *C.* 1904 [2] 452).
- $C_5H_4ON_2Cl_2$ 1) Methyläther d. 2,6-Dichlor-4-Oxy-1,3-Diazin. Sm. 51° (*B.* 36, 2234 *C.* 1903 [2] 449; *B.* 36, 3381 *C.* 1903 [2] 1192).
- $C_5H_4ON_2Br_2$ 1) Amid d. 3,4-Dibrompyrrol-2-Carbonsäure + H_2O . Sm. 158° + $C_2H_4O_2$ (*B.* 37, 2799 *C.* 1904 [2] 533).
- $C_5H_4ON_2S$ 2) 2-Thiocarbonyl-6-Ketopurin. (*A.* 331, 77 *C.* 1904 [1] 1200).
- $C_5H_4O_2NCl$ 2) Methylimid d. Chlormaleinsäure. Sm. 79° (*G.* 34 [1] 258 *C.* 1904 [2] 120).
- $C_5H_4O_2N_4S$ *1) 8-Merkapto-2,6-Diketopurin (D.R.P. 141974 *C.* 1903 [2] 79; D.R.P. 142468 *C.* 1903 [2] 80).
- $C_5H_4N_2Cl_3S$ 1) Methyläther d. 4,6-Dichlor-2-Merkapto-1,3-Diazin. Sm. 41 bis 42°; Sd. 135—136°₁₄ (*Am.* 32, 346 *C.* 1904 [2] 1414).
- $C_5H_5ON_3S_2$ 1) Formylechrysean. Zers. oberh. 210° (*B.* 36, 3547 *C.* 1903 [2] 1379).
- $C_5H_5O_3NS$ *1) Pyridin-3-Sulfonsäure (*M.* 24, 203 *C.* 1903 [2] 48; *C.* 1904 [2] 454).
- $C_5H_5O_3N_3S$ 1) 2-Methyläther d. 5-Oximido-2-Merkapto-4,6-Diketo-3,4,5,6-Tetrahydro-1,3-Diazin. Zers. bei 180—200° (*Am.* 32, 350 *C.* 1904 [2] 1414).
- $C_5H_3O_3N_2Br$ 1) 5-Brom-2,4,6-Triketo-5-Methylhexahydro-1,3-Diazin. Sm. 192,5° (*A.* 335, 359 *C.* 1904 [2] 1382).
- C_5H_5NBrJ 1) Pyridinbromojodid. Sm. 115—117°. HBr (*C. r.* 136, 1471 *C.* 1903 [2] 296).
- $C_5H_5ON_2S$ 5) 4- oder 5-Acetylamidothiazol. Sm. 162° (*B.* 36, 3550 *C.* 1903 [2] 1379).

- $C_5H_6ON_2S$ 6) 4-Acetyl-5-Methyl-1,2,3-Thiodiazol. Fl. + $HgCl_2$ (A. 325, 175 C. 1903 [1] 646).
- 7) Methyläther d. 2-Merkapto-4-Keto-3,4-Dihydro-1,3-Diazin. Sm. 198—199° (Am. 29, 483 C. 1903 [1] 1309.)
- $C_5H_6ON_3Cl$ 1) Methyläther d. 6-Chlor-2-Amido-4-Oxy-1,3-Diazin. Sm. 168 bis 169° (B. 36, 3381 C. 1903 [2] 1192).
- $C_5H_6O_2NBr$ *2) Aethylester d. Bromcyanessigsäure. Sd. 195—200°₇₆₀ (Am. 30, 466 C. 1904 [1] 378).
- $C_5H_6O_2N_2S$ 6) 2-Thiocarbonyl-4,6-Diketo-5-Methylhexahydro-1,3-Diazin + H_2O . Sm. 244° (Am. 32, 352 C. 1904 [2] 1414).
- 7) Methyläther d. 2-Merkapto-4,6-Diketo-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. noch nicht bei 300° (Am. 32, 345 C. 1904 [2] 1413).
- $C_5H_6O_2N_2S_2$ 1) Aethylester d. Isorhodanformylamidothioameisensäure (Hemithiourethan). Sm. 141—142° (Soc. 83, 87 C. 1903 [1] 230, 447).
- $C_5H_6O_2N_3Cl$ 1) Dimethyläther d. 6-Chlor-2,4-Dioxy-1,3,5-Triazin. Sm. 81° (B. 36, 3195 C. 1903 [2] 956).
- $C_5H_6O_2N_4S$ 1) 5-Formylamido-6-Amido-2-Thiocarbonyl-4-Keto-1,2,3,4-Tetrahydro-1,3-Diazin + H_2O . Na + 2 H_2O (A. 331, 76 C. 1904 [1] 1200).
- $C_5H_6O_3N_4S$ *3) γ -Thiopseudoharnsäure. (5-Thioureido-2,4,6-Triketohexahydro-1,3-Diazin) (D.R.P. 141974 C. 1903 [2] 80).
- $C_5H_6O_5NBr$ 1) Dimethylester d. Bromnitromalonsäure. Sd. 133°₁₆ (B. 37, 1779 C. 1904 [1] 1483).
- $C_5H_8N_3ClS$ 1) Methyläther d. 6-Chlor-4-Amido-2-Merkapto-1,3-Diazin. Sm. 127—128° (Am. 32, 347 C. 1904 [2] 1414).
- $C_5H_7ONS_2$ 2) 2-Thiocarbonyl-4-Keto-3-Aethyltetrahydrothiazol. Fl. (M. 25, 173 C. 1904 [1] 895).
- $C_5H_7ON_3S$ 3) 4-[α -Oximidoäthyl]-5-Methyl-1,2,3-Thiodiazol. Sm. 127° (A. 325, 176 C. 1903 [1] 646).
- $C_5H_7ON_4Cl_2$ *1) Dichlorporphyraxid. Sm. 116° u. Zers. (B. 36, 1290 C. 1903 [1] 1255).
- $C_5H_7ON_5S$ 1) 4,6-Diamido-5-Formylamido-2-Merkapto-1,3-Diazin + H_2O (A. 331, 83 C. 1904 [1] 1200).
- $C_5H_7OClBr_2$ 1) Chlorid d. $\alpha\delta$ -Dibrombutan- α -Carbonsäure. Sd. 122—127°₁₃₋₁₅ (B. 37, 2843 C. 1904 [2] 643).
- $C_5H_7O_2N_3S$ 5) Methyläther d. 5-Amido-2-Merkapto-4,6-Diketo-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. noch nicht bei 301° (Am. 32, 351 C. 1904 [2] 1414).
- 6) 2,4-Dimethyläther d. 6-Merkapto-2,4-Dioxy-1,3,5-Triazin. Sm. 134° (u. 194°) (B. 36, 3196 C. 1903 [2] 956).
- $C_5H_7O_2N_3Se$ 1) α -Selencyanpropionylharnstoff. Sm. 136° (Ar. 241, 196 C. 1903 [2] 103).
- 2) α -Methyl- β -Selencyanacetylharnstoff. Sm. 148—149° u. Zers. (A. r. 241, 190 C. 1903 [2] 103).
- $C_5H_7O_3NBr_2$ 2) $\alpha\beta$ -Dibrompropionylamidoessigsäure. Sm. 147—148° (B. 37, 2509 C. 1904 [2] 427).
- $C_5H_8ON_2S$ *5) 2-Thiocarbonyl-4-Keto-1,3-Dimethyltetrahydroimidazol. Sm. 94,5° (Bl. [3] 29, 1199 C. 1904 [1] 354).
- *6) 2-Thiocarbonyl-5-Keto-1,4-Dimethyltetrahydroimidazol. Sm. 168—169° (Bl. [3] 29, 1194 C. 1904 [1] 361).
- $C_5H_8ON_4Cl$ *1) Chlorporphyraxid (B. 36, 1291 C. 1903 [1] 1255).
- 2) isom. Chlorporphyraxid. Sm. 151,5° (B. 36, 1289 C. 1903 [1] 1255).
- $C_5H_8O_3NCl$ *1) Aethylester d. Chloracetylamidoameisensäure. Sm. 130° (B. 36, 745 C. 1903 [1] 827).
- 2) α -Chloracetylamidopropionsäure. Sm. 125—127° (B. 37, 2490 C. 1904 [2] 424).
- 3) Chlorid d. Amidoessigsäure-N-Carbonsäureäthylester (Carbäthoxylglycinchlorid). Fl. (B. 36, 2109 C. 1903 [2] 345).
- $C_5H_8N_3JS_2$ 1) Jodmethenylat d. Chrysean. Zers. bei 180° (B. 36, 3546 C. 1903 [2] 1378).
- $C_5H_8ONCl_2$ 1) $\beta\gamma$ -Dichlor- γ -Nitroso- β -Methylbutan. Sm. 119—120° (B. 37, 543 C. 1904 [1] 865).

- $C_5H_9ONS_2$ *1) Aethylester d. Acetylamidodithioameisensäure. Sm. 123° (*Bl.* [3] 29, 51 *C.* 1903 [1] 446).
 3) Methylester d. Acetylmethylamidodithioameisensäure. Sd. 156 bis 158°₃₂ (*Bl.* [3] 29, 60 *C.* 1903 [1] 447).
- $C_5H_9ON_3S$ 2) 5-Imido-2-Thiocarbonyl-3-Oxy-4,4-Dimethyltetrahydroimidazol. Sm. 231° u. Zers. (*B.* 34, 1877; *B.* 36, 1289 *C.* 1903 [1] 1255).
- $C_5H_9O_2NF_2$ 1) Aethylester d. $\beta\beta$ -Difluoräthylamidoameisensäure. Sm. 37,6°; Sd. 184—185,5° (*C.* 1904 [2] 945).
- $C_5H_9O_4N_2Br$ 1) Nitrat d. γ -Brom- γ -Nitroso- β -Oxy- β -Methylbutan (*B.* 36, 1771 *C.* 1903 [2] 101).
- $C_5H_9O_5N_2Br$ 1) Nitrat d. γ -Brom- γ -Nitro- β -Oxy- β -Methylbutan. Sm. 226° u. Zers. (*B.* 36, 1772 *C.* 1903 [2] 101).
- $C_5H_{10}ONCl$ *3) Chlorid d. Diäthylamidoameisensäure. Sd. 187—190° (*Bl.* [3] 31, 689 *C.* 1904 [2] 198).
- $C_5H_{10}ONBr$ 3) β -Brom- γ -Nitroso- β -Methylbutan. Fl. (*B.* 37, 536 *C.* 1904 [1] 864).
 4) β -Brom- γ -Oximido- β -Methylbutan. Sm. 78—79° (*B.* 37, 539 *C.* 1904 [1] 864).
- $C_5H_{10}O_3N_2S$ 3) Aethylester d. Thioureidoessigsäure. Sm. 65° (*A.* 327, 371 *C.* 1903 [2] 660).
- $C_5H_{10}NCl_2P$ *1) 1-Piperidylchlorphosphin. Sd. 94—95°₁₀ (*A.* 326, 157 *C.* 1903 [1] 761).
- $C_5H_{11}OCSl_2$ *1) Methylxydiäthylendisulfinchlorid (*J. pr.* [2] 66, 464 *C.* 1903 [1] 561).
- $C_5H_{11}O_2ClS$ *1) Methyläthylthetinchlorid. + 6H₂Cl₂ (*J. pr.* [2] 66, 465 *C.* 1903 [1] 561).
- $C_5H_{11}NCl_2S$ 1) Amylmonamid d. Thiophosphorsäuredichlorid. Sd. 140°₁₆ (*A.* 326, 205 *C.* 1903 [1] 821).
- $C_5H_{12}NCl_2P$ 1) Amylamidodichlorphosphin. Sd. 101°₃ (*A.* 325, 150 *C.* 1903 [1] 760).
- $C_5H_{13}ON_2J$ 1) Jodmethylat d. 4-Amidomorpholin. Sm. 170—171° (*B.* 35, 4477 *C.* 1903 [1] 404).
- $C_5H_{13}O_3NS$ 4) α -Diäthylamidomethan- α -Sulfonsäure. Na (*B.* 37, 4087 *C.* 1904 [2] 1724).
- $C_5H_{14}ONCl$ *1) Cholinchlorid. 2 + PtCl₄, + AuCl₃ (*B.* 36, 2903 *C.* 1903 [2] 986).
 *2) Methyläther d. Oxytetramethylammoniumchlorid. 2 + PtCl₄ (*A.* 334, 12 *C.* 1904 [2] 947).
- $C_5H_{14}ONBr$ *1) Cholinbromid (*B.* 36, 2903 *C.* 1903 [2] 986).
 2) Trimethyl- β -Bromäthylammoniumhydroxyd. Bromid, Pikrat (*B.* 36, 2902 *C.* 1903 [2] 986).
- $C_5H_5O_2NClBr$ 1) Methylimid d. Chlorbrommaleinsäure. Sm. 103° (*G.* 34 [1] 487 *C.* 1904 [2] 452).
- $C_5H_4O_5NClS$ 1) 3-Amid d. 5-Chlorfuran-2-Carbonsäure-3-Sulfonsäure. Sm. 194—195°. K, Ca + 6H₂O, Ba + 3H₂O, Pb + H₂O, Ag (*Am.* 32, 209 *C.* 1904 [2] 1140).
- $C_5H_4O_5NBrS$ 1) 3-Amid d. 5-Bromfuran-2-Carbonsäure-3-Sulfonsäure. Sm. 190—191°. K + H₂O, Ba + 3H₂O, Pb + 2H₂O, Ag + 1½H₂O (*Am.* 32, 222 *C.* 1904 [2] 1140).
- $C_5H_5O_4N_2ClS$ 1) Diamid d. 5-Chlorfuran-2-Carbonsäure-3-Sulfonsäure. Sm. 212° (*Am.* 32, 206 *C.* 1904 [2] 1139).
- $C_5H_5O_4N_2BrS$ 1) Diamid d. 5-Bromfuran-2-Carbonsäure-3-Sulfonsäure. Sm. 219—220° (*Am.* 32, 219 *C.* 1904 [2] 1140).
- $C_5H_6O_5NBrS$ 1) Amid d. 5-Brom-2-Methylfuran-4-Sulfonsäure. Sm. 123° (*Am.* 32, 199 *C.* 1904 [2] 1139).
- $C_5H_{10}ONCl_2P$ 1) Dichlorid d. 1-Piperidylphosphinsäure. Sd. 257° (*A.* 326, 186 *C.* 1903 [1] 820).
- $C_5H_{10}NCl_2SP$ 1) Dichlorid d. 1-Piperidylthiophosphinsäure. Sd. 146—149°₂₁ (*A.* 326, 213 *C.* 1903 [1] 822).
- $C_5H_{12}ONCl_2P$ 1) Amylmonamid d. Phosphorsäuredichlorid. Sd. 159°₁₇ (*A.* 326, 174 *C.* 1903 [1] 819).

C₆-Gruppe.

- C₆H₈** *2) 1,2-Dihydrobenzol. Sd. 81,5° (A. 328, 105 C. 1903 [2] 244; C. 1904 [2] 440; Soc. 85, 1417 C. 1904 [2] 1736).
 *3) 1,4-Dihydrobenzol. Sd. 81,5° (A. 328, 107 C. 1903 [2] 244).
C₆H₁₀ *9) Diallyl (C. 1903 [2] 339).
C₆Cl₆ *1) Hexachlorbenzol (C. 1903 [1] 870).

— 6 II —

- C₆H₅Br₄** *1) 1,2,3,5-Tetrabrombenzol. Sm. 98° (A. 330, 55 C. 1904 [1] 1142).
C₆H₄O₂ *2) 1,4-Benzochinon (G. 33 [1] 164).
 5) Säure (aus p-Kresol). = (C₆H₄O₂)_x. Sm. noch nicht bei 320° (B. 36, 2032 C. 1903 [2] 360).
C₆H₄O₅ *4) βγ-Anhydrid d. Propen-αβγ-Tricarbonsäure (Akonitanhydridsäure). Sm. 76° (B. 37, 3968 C. 1904 [2] 1604).
C₆H₃J₂ *2) 1,3-Dijodbenzol. Sm. 38° (B. 37, 1301 C. 1904 [1] 1339).
C₆H₅Cl *1) Chlorbenzol. Sd. 131—132° (C. r. 135, 1121 C. 1903 [1] 283; B. 36, 1230 C. 1903 [1] 1218).
C₆H₅Na 1) Natriumphenyl (Am. 29, 589 C. 1903 [2] 195).
C₆H₅O *1) Oxybenzol. + H₃PO₄ (Sm. 61—69°) (R. 21, 354 C. 1903 [1] 151; J. pr. [2] 68, 486 C. 1904 [1] 444).
C₆H₆O₂ *2) 1,2-Dioxybenzol (B. 35, 4324 C. 1903 [1] 285; J. pr. [2] 68, 486 C. 1904 [1] 444).
 *4) 1,4-Dioxybenzol. + H₃PO₄ (R. 21, 355 C. 1903 [1] 151; J. pr. [2] 68, 486 C. 1904 [1] 444).
C₆H₆O₃ *3) 1,3,5-Trioxymethylbenzol (Ar. 242, 462 C. 1904 [2] 783).
 *5) Maltol (Larixinsäure). Sm. 159° (A. 123, 191; B. 36, 3407 C. 1903 [2] 1280).
 *16) Anhydrid d. β-Buten-βγ-Dicarbonsäure (B. 37, 1614 C. 1904 [1] 1402).
 *18) Aldehyd d. 4-Oxy-2-Methylfuran-5-Carbonsäure (B. 37, 303 C. 1904 [1] 648).
 20) 2-Methylfuran-3-Carbonsäure. Sm. 102—103° (C. 1904 [1] 956).
 21) Methylster d. Isobrenzschleimsäure. Sm. 60°; Sd. 130—135°₂₀ (C. r. 137, 992 C. 1904 [1] 291).
C₆H₆O₄ *8) 2-Oxymethylfuran-5-Carbonsäure. Sm. 165—167° (B. 36, 2590 C. 1903 [2] 618).
 16) 1,2,3,4-Tetraoxybenzol (Apionol). Sm. 161° (B. 37, 119 C. 1904 [1] 586).
 17) αγ-Lakton d. γ-Oxy-α-Buten-αβ-Dicarbonsäure. Sm. 159,5—160°. Ca, Ba (A. 331, 141 C. 1904 [1] 933).
C₆H₆O₅ *9) αγ-Lakton d. α-Keto-γ-Oxybutan-αγ-Dicarbonsäure. Na + NaHSO₃ + 7 H₂O (R. 21, 153 C. 1904 [2] 194).
 10) Pentaoxybenzol (C. 1903 [2] 830; B. 37, 122 C. 1904 [1] 586).
 11) d-2,5-Dihydrofuran-2,5-Dicarbonsäure + H₂O. Sm. 144° (wasserfrei). Ba + 1½ H₂O, Pb + 2 H₂O (B. 37, 2539 C. 1904 [2] 530).
 12) l-2,5-Dihydrofuran-2,5-Dicarbonsäure + H₂O. Sm. 144° (wasserfrei). Ba + 1½ H₂O, Pb + 2 H₂O (B. 37, 2539 C. 1904 [2] 531).
 13) αγ-Lakton d. βγ-Dioxypropen-αα-Dicarbonsäuremonomethylester (Tetron-α-Carbonsäuremethylester). Sm. 171—173° u. Zers. NH₄, Methylamin Salz (B. 36, 469 C. 1903 [1] 626).
C₆H₆O₆ *6) Akonitsäure. Sm. 155—166° (A. 327, 237 C. 1903 [1] 1406).
 *9) cis-R-Trimethylen-1,2,3-Tricarbonsäure. Ag₃ (J. pr. [2] 68, 166 C. 1903 [2] 760).
 *10) trans-R-Trimethylen-1,2,3-Tricarbonsäure. Sm. 218—219° (B. 36, 3509 C. 1903 [2] 1274; B. 36, 3781 C. 1904 [1] 42).
 22) r-Diformaltraubensäure (R. 21, 374 C. 1903 [1] 138).
C₆H₆O₉ C 32,4 — H 2,7 — O 64,9 — M. G. 222.
 1) Benzoltriozonid (Ozobenzol). Zers. bei 50° (C. r. 76, 572; B. 14, 975; A. 170, 123; Bl. [3] 13, 940; B. 37, 3431 C. 1904 [2] 1111). — *II, 17.
C₆H₆N₂ 3) 1,4-Diimido-1,4-Dihydrobenzol. Zers. bei 50—60°. 2HCl, HBr (Am. 31, 218 C. 1904 [1] 1073; B. 37, 1499 C. 1904 [1] 1413; B. 37, 2912 C. 1904 [2] 1458).
 4) Verbindung (aus 1,4-Diamidobenzol) = (C₆H₆N₂)_n. Sm. 230—231° (238 bis 238,5 u. Zers.; 242—243°) (M. 10, 124; B. 27, 480; B. 37, 1506 C. 1904 [1] 1414; B. 37, 2907 C. 1904 [2] 1458). — IV, 595.

- C₆H₅Cl₂** 1) 3,5-Dichlor-1,2-Dihydrobenzol. *Sd.* 88—90°₂₉ (*Soc.* 83, 501 *C.* 1903 [1] 1028, 1352).
- C₆H₅Br₂** 1) 3,5-Dibrom-1,2-Dihydrobenzol^P *Sm.* 104,5° (*Soc.* 83, 502 *C.* 1903 [1] 1028, 1352).
- C₆H₅S** *1) Merkapto^{benzol} (*Bl.* [3] 29, 692 *C.* 1903 [2] 565; *Bl.* [3] 29, 762 *C.* 1903 [2] 620; *Am.* 31, 572 *C.* 1904 [2] 98; *B.* 37, 3274 *C.* 1904 [2] 1295).
- C₆H₅Se** *1) Selenobenzol. *Sd.* 182° (*Bl.* [3] 29, 763 *C.* 1903 [2] 620).
- C₆H₇N** *1) Anilin (*A.* 327, 108 *C.* 1903 [1] 1213).
- *2) 2-Methylpyridin. *Sd.* 128,8°₇₆₀ (*C.* 1903 [1] 399; *Am.* 29, 3 *C.* 1903 [1] 524).
- *3) 3-Methylpyridin. *Sd.* 143,4°₇₆₀ (*Am.* 29, 4 *C.* 1903 [1] 524).
- *4) 4-Methylpyridin. *Sd.* 143,1°₇₆₀ (*Am.* 29, 6 *C.* 1903 [1] 524).
- C₆H₅O₂** *5) Sorbinsäure. *K.* Ba (*C.* 1903 [2] 556).
- *10) α -Pentin- α -Carbonsäure. *Sm.* 25°; *Sd.* 126—127°₂₄ (*C. r.* 136, 553 *C.* 1903 [1] 824).
- 20) 2-Keto-1-Oxymethylen-R-Pentamethylen. *Sm.* 72—73°; *Sd.* 80—110°₄₀ (*A.* 329, 114 *C.* 1903 [2] 1322).
- 21) γ -Methyl- α -Butin- α -Carbonsäure. *Sm.* 36—38°; *Sd.* 114—115°₁₈ (*C. r.* 136, 553 *C.* 1903 [1] 824).
- C₆H₅O₄** *9) α -Buten- $\alpha\beta$ -Dicarbonsäure. *Sm.* 194—196° (*A.* 331, 123 *C.* 1904 [1] 932; *B.* 37, 2384 *C.* 1904 [2] 306).
- *10) α -Buten- $\alpha\beta$ -Dicarbonsäure. *Sm.* 100 (*J. pr.* [2] 68, 160 *C.* 1903 [2] 759).
- *16) β -Buten- $\alpha\beta$ -Dicarbonsäure. *Sm.* 166—167° (*A.* 330, 307 *C.* 1904 [1] 927; *B.* 37, 2384 *C.* 1904 [2] 306).
- *17) β -Buten- $\alpha\delta$ -Dicarbonsäure. *Ag₂* (*Soc.* 85, 613 *C.* 1904 [1] 1553).
- *30) $\alpha\gamma$ -Lakton d. γ -Oxybutan- $\alpha\beta$ -Dicarbonsäure. *Sm.* 78—79° (*A.* 330, 312 *C.* 1904 [1] 927).
- *48) α -Buten- $\beta\delta$ -Dicarbonsäure. *Sm.* 133,5° (130—131°). Ba + 2H₂O (*M.* 11, 513; *B.* 36, 1202 *C.* 1903 [1] 1175).
- 49) cis-1-Methyl-R-Trimethylen-2,3-Dicarbonsäure. *Sm.* 108° (*B.* 36, 1087 *C.* 1903 [1] 1126).
- 50) trans-1-Methyl-R-Trimethylen-2,3-Dicarbonsäure. *Fl.* Ag₂ + $\frac{1}{2}$ H₂O (*J. pr.* [2] 68, 159 *C.* 1903 [2] 759).
- 51) $\alpha\gamma$ -Lakton d. α -Oxybutan- $\beta\gamma$ -Dicarbonsäure. *Sm.* 104°. Zn (*B.* 37, 1613 *C.* 1904 [1] 1402).
- 52) Aethylester d. $\alpha\beta$ -Diketobuttersäure. *Sd.* 70°₁₃. + $\frac{1}{2}$ H₂O (*Sm.* 120°) (*C. r.* 138, 1222 *C.* 1904 [2] 27).
- 53) β -Ketopropylester d. Brenztraubensäure. *Sm.* 152—153° (*C.* 1904 [2] 302).
- C₆H₅O₆** *2) Tricarballysäure (*C. r.* 136, 1332 *C.* 1903 [2] 107; *J. pr.* [2] 68, 165 *C.* 1903 [2] 760).
- *5) Parabrenztraubensäure. Ba (*R.* 21, 299 *C.* 1903 [1] 17).
- *10) Metabrenztraubensäure. Ba (*R.* 21, 302 *C.* 1903 [1] 17).
- 13) Lakton d. Parasaccharonsäure. (Parasaccharon). *Sm.* 159—160° (*B.* 37, 3613 *C.* 1904 [2] 1454).
- C₆H₅O₇** *2) Citronensäure. Rb, (*C.* 1903 [1] 810; *C. r.* 135, 1352 *C.* 1903 [1] 320; *B.* 36, 3599 *C.* 1903 [2] 1317).
- C₆H₅O₈** *1) $\alpha\beta$ -Dioxypropan- $\alpha\beta\gamma$ -Tricarbonsäure + H₂O. *Sm.* 159—160°. K₂ + 4H₂O, Ca₃ + 4H₂O, Ca₃ + 18H₂O, Cu₃ + 2H₂O (*B.* 37, 3614 *C.* 1904 [2] 1454).
- C₆H₅N₂** *3) 1,4-Diamidobenzol (*B.* 36, 3827 *C.* 1904 [1] 19; *B.* 37, 2776 *C.* 1904 [2] 773; *B.* 37, 2906 *C.* 1904 [2] 1458).
- *4) Phenylhydrazin (*B.* 35, 4178 *C.* 1903 [1] 144; *C. r.* 137, 330 *C.* 1903 [2] 716).
- 17) Pyrazol (aus 2-Semicarbazol-1-Oxymethylen-R-Pentamethylen). *Sm.* 57—59° (*A.* 329, 116 *C.* 1903 [2] 1322).
- 18) 3,6-Dimethyl-1,2-Diazin. *Sm.* 24—33°. HCl, (HCl, AuCl₃), (2HCl, AuCl₃) (*B.* 36, 503 *C.* 1903 [1] 654).
- C₆H₅Cl₄** 2) isom. Tetrachlorhexahydrobenzol. *Sm.* 173° (*C. r.* 137, 242 *C.* 1903 [2] 665).
- 3) isom. Tetrachlorhexahydrobenzol. *Sd.* 170,5—172,5°₅₀ (*C. r.* 137, 242 *C.* 1903 [2] 665).
- C₆H₅Br₂** 7) 1,4-Dibrom-1,2,3,4-Tetrahydrobenzol. *Sm.* 108° (*C.* 1904 [2] 440; *Soc.* 85, 1412 *C.* 1904 [2] 1736).

- C₆H₃Br₃** 8) *p*-Dibrom-1, 2, 3, 4-Tetrahydrobenzol. Sm. 116—117°₂₉ (*C.* 1904 [2] 440).
- C₆H₃N₃** *7) Nitril d. $\alpha\alpha'$ -Imidodipropionsäure (*Bl.* [3] 29, 1180 *C.* 1904 [1] 353).
- 11) Di[Cyanmethyl]äthylamin. (Nitril d. Äthylimidodiessigsäure). Sm. 141°₁₃ HCl (*B.* 37, 4092 *C.* 1904 [2] 1725).
- C₆H₃Cl₃** 2) 1,3,5-Trichlorhexahydrobenzol? Sm. 66; Sd. 233°₇₄₅ (*C. r.* 137, 242 *C.* 1903 [2] 665).
- 3) isom. Trichlorhexahydrobenzol. Sd. 221°₇₄₅ u. Zers. (*C. r.* 137, 242 *C.* 1903 [2] 665).
- 4) isom. Trichlorhexahydrobenzol. Sd. 226°₇₄₅ u. Zers. (*C. r.* 137, 242 *C.* 1903 [2] 665).
- C₆H₃Br** 1) 1-Brom-1, 2, 3, 4-Tetrahydrobenzol. Sd. 74°₂₈ (*Soc.* 85, 1422 *C.* 1904 [2] 1736).
- C₆H₁₀O** *6) δ -Keto- β -Methyl- β -Penten (*M.* 24, 770 *C.* 1904 [1] 158).
- *7) R-Ketohexamethylen. Sd. 161° (*C. r.* 137, 1026 *C.* 1904 [1] 280).
- *8) 2-Keto-1-Methyl-R-Pentamethylen. Sd. 140—141° (*A.* 331, 322 *C.* 1904 [1] 1567).
- 17) Hexahydrobenzol-1,2-Oxyd. Sd. 131,5°₇₆₀ (*C. r.* 137, 62 *C.* 1903 [2] 570).
- C₆H₁₀O₂** *10) α -Penten- α -Carbonsäure (*A.* 334, 207 *C.* 1904 [2] 884).
- *12) α -Penten- α -Carbonsäure. Sd. 203° (*B.* 37, 1999 *C.* 1904 [2] 23; *A.* 334, 208 *C.* 1904 [2] 884).
- *13) β -Penten- α -Carbonsäure (*A.* 334, 207 *C.* 1904 [2] 884).
- *14) β -Penten- β -Carbonsäure. Sm. 24—25°, Sd. 213° (*M.* 24, 156 *C.* 1903 [1] 956; *B.* 37, 1617 *C.* 1904 [1] 1403; *A.* 334, 206 *C.* 1904 [2] 884).
- *15) β -Penten- γ -Carbonsäure. (α -Äthylcrotonsäure). Ca + 5H₂O (*A.* 334, 104 *C.* 1904 [2] 888).
- *16) β -Penten- ϵ -Carbonsäure (*B.* 37, 1999 *C.* 1904 [2] 23; *A.* 334, 208 *C.* 1904 [2] 884).
- *19) Brenzterebinsäure. Sd. 110—111°₂₂ (*C. r.* 136, 1464 *C.* 1903 [2] 282; *C. r.* 139, 293 *C.* 1904 [2] 692).
- *30) Lakton d. γ -Oxyisocaproonsäure. Sd. 202—203° (*C. r.* 136, 1464 *C.* 1903 [2] 282; *C. r.* 139, 293 *C.* 1904 [2] 692).
- *52) γ -Methyl- α -Buten- γ -Carbonsäure. Ca + 5H₂O (*C. r.* 139, 293 *C.* 1904 [2] 692).
- 55) α -Penten- δ -Carbonsäure (*A.* 334, 207 *C.* 1904 [2] 884).
- 56) β -Penten- δ -Carbonsäure. Sd. 198—199°₇₄₀. Ca (*B.* 37, 1617 *C.* 1904 [1] 1403; *A.* 334, 206 *C.* 1904 [2] 884).
- 57) isom. β -Penten- γ -Carbonsäure (α -Äthylisocrotonsäure). Sd. 199,5°₇₅₀. Ca + 2H₂O (*A.* 334, 103 *C.* 1904 [2] 888).
- 58) Keton (aus d. Verb. C₆H₁₀O₂). Sd. 70—75°₁₅ (*C. r.* 137, 1205 *C.* 1904 [1] 356).
- 59) Lakton d. γ -Oxy- β -Methylvaleriansäure. Sd. 213° (*Bl.* [3] 29, 335 *C.* 1903 [1] 1216).
- 60) Lakton d. δ -Oxy- p -Methylvaleriansäure. Sd. 104—108°₁₃₋₁₄ (*B.* 36, 1205 *C.* 1903 [1] 1176).
- 61) Lakton d. γ -Oxy- β -Äthylbuttersäure. Sd. 218—219° (*B.* 36, 1204 *C.* 1903 [1] 1176).
- 62) Lakton (aus β -Methylpropan- $\alpha\beta$ -Dicarbonsäurediäthylester). Sd. 201—202° (*C. r.* 138, 580 *C.* 1904 [1] 925).
- 63) Verbindung (aus Epichlorhydrin u. Acetylacetonatrium). Sd. 81—82°₁₈ (*C. r.* 137, 1204 *C.* 1904 [1] 356).
- C₆H₁₀O₈** *1) Glycerinäther (β -Akroleinglycerin). Sd. 170—171° (*A.* 335, 224 *C.* 1904 [2] 1203).
- *7) β -Ketopentan- ϵ -Carbonsäure. Ag (*A.* 331, 324 *C.* 1904 [1] 1567).
- *11) α -Keto- $\beta\beta$ -Dimethylpropan- α -Carbonsäure. Sm. 82° (*A.* 327, 205 *C.* 1903 [1] 1407).
- *26) Äthylester d. α -Ketopropan- α -Carbonsäure. Sd. 162°₇₆₀ (*Bl.* [3] 31, 1149 *C.* 1904 [2] 1706).
- *28) Äthylester d. Acetessigsäure (*B.* 36, 1834 *C.* 1903 [2] 191; *B.* 37, 591 *C.* 1904 [1] 867; *B.* 37, 3451 *C.* 1904 [2] 1274; *B.* 37, 3488 *C.* 1904 [2] 1288).
- 41) $\alpha\beta$ -Äthylidenäther d. $\alpha\beta\gamma$ -Trioxypentan (α -Akroleinglycerin). Sd. 102—116°₁₇ (*A.* 335, 216 *C.* 1904 [2] 1202).
- 42) Äther d. γ -Oxy- $\alpha\beta$ -Propanoxyd (Diglycidäther). Sd. 103°₂₂ (*A.* 335, 238 *C.* 1904 [2] 1204).

- $C_6H_{10}O_3$ 43) Peroxyd (aus Mesityloxyd) (*B.* 36, 1933 *C.* 1903 [2] 189).
 44) δ -Oxy- β -Penten- ϵ -Carbonsäure. Fl. Ba (*C.* 1903 [2] 556).
 45) 3-Oxy-1,1-Dimethyl-R-Trimethylen-2-Carbonsäure? Sm. 119—120° (*Soc.* 83, 858 *C.* 1903 [2] 572).
 46) δ -Keto- β -Methylbutan- δ -Carbonsäure. Sm. —1,5°; Sd. 84—85°₁₅ (*Bl.* [3] 31, 1151 *C.* 1904 [2] 1707).
 47) Lakton d. $\alpha\gamma$ -Dioxy- $\beta\beta$ -Dimethylpropan- α -Carbonsäure. Sm. 55° (*M.* 25, 48 *C.* 1904 [1] 717).
 48) Isobutylester d. Glyoxylsäure. Sd. 75—80°₁₅ (*Bl.* [3] 31, 681 *C.* 1904 [2] 195).
- $C_6H_{10}O_4$ *10) Butan- $\alpha\delta$ -Dicarbonsäure (*Bl.* [3] 29, 1038 *C.* 1903 [2] 1424).
 *15) β -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 140°. Ag₂ (*A.* 329, 91 *C.* 1903 [2] 1071).
 *16) β -Methylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 85—86°. Ag₂ (*A.* 329, 103 *C.* 1903 [2] 1071).
 *29) Diäthylester d. Oxalsäure. + AlCl₃ (*Soc.* 85, 1107 *C.* 1904 [2] 976).
 34) Dulcid. Sd. 198°₁₈ (*C. r.* 139, 637 *C.* 1904 [2] 1536).
 35) Peroxyd d. Propionsäure. Fl. (*Am.* 29, 191 *C.* 1903 [1] 959).
 36) isom. β -Monomethylester d. Propan- $\alpha\beta$ -Dicarbonsäure. Sd. 140°₁₁. Ag (*Soc.* 85, 542 *C.* 1904 [1] 1484).
 37) Monomethylester d. Propan- $\beta\beta$ -Dicarbonsäure. Fl. (*Soc.* 83, 1240 *C.* 1903 [2] 1420).
- $C_6H_{10}O_5$ *9) Cellulose (*C.* 1904 [1] 1069).
 *100) Parasaccharin (*B.* 37, 1196 *C.* 1904 [1] 1196).
 104) Salepschleim (*B.* 36, 3200 *C.* 1903 [2] 1054).
 105) α -Oxybutan- $\alpha\beta$ -Dicarbonsäure. Sm. 108—109° (133—134°) (*B.* 35, 4372 *C.* 1903 [1] 281; *B.* 37, 2382 *C.* 1904 [2] 306).
 106) α -Oxybutan- $\beta\gamma$ -Dicarbonsäure. Ca (*B.* 37, 1614 *C.* 1904 [1] 1402).
 107) Lakton d. Fukonsäure. Sm. 106—107° (*B.* 37, 308 *C.* 1904 [1] 649).
- $C_6H_{10}O_6$ *7) 3,4-Dioxy-2-Oxymethyltetrahydrofuran-5-Carbonsäure (Chitarsäure). Ca + 4H₂O (*B.* 35, 4016 *C.* 1903 [1] 391; *B.* 36, 2587 *C.* 1903 [2] 617).
 *19) Monoäthylester d. d-Weinsäure. K (*Soc.* 85, 1123 *C.* 1904 [2] 1206).
 29) i- $\alpha\delta$ -Dioxybutan- $\alpha\delta$ -Dicarbonsäure. Sm. 132—134° (*B.* 37, 2092 *C.* 1904 [2] 23).
 30) r- $\alpha\delta$ -Dioxybutan- $\alpha\delta$ -Dicarbonsäure. Sm. 173° (*B.* 37, 2092 *C.* 1904 [2] 23).
 31) isom. 3,4-Dioxy-2-Oxymethyltetrahydrofuran-5-Carbonsäure (Chitonsäure). Fl. Ca + 2H₂O (*B.* 27, 139; *B.* 36, 2587 *C.* 1903 [2] 617). — *I, 426.
 32) isom. Dimethylester d. d-Weinsäure. Sm. 61,5° (*Soc.* 85, 765 *C.* 1904 [2] 512).
- $C_6H_{10}O_7$ *5) d-Glykuronsäure (*H.* 41, 243 *C.* 1904 [1] 1095).
 *7) Oxyglykonsäure. Ca + 3H₂O (*C.* 1904 [2] 1291).
 10) Parasaccharonsäure. Ca + 5H₂O, Cu + H₂O (*B.* 37, 3613 *C.* 1904 [2] 1454).
- $C_6H_{10}O_8$ *1) Schleimsäure (*C.* 1903 [2] 712).
- $C_6H_{10}N_2$ *12) Nitril d. Hexahydropyridin-1-Carbonsäure. Sd. 122—124°₃₀ (*Am.* 29, 302 *C.* 1903 [1] 1165; *B.* 36, 1198 *C.* 1903 [1] 1215).
 14) l-Amido-2,5-Dimethylpyrrol. Sm. 52—53°; Sd. 198—204° (*B.* 35, 4316 *C.* 1903 [1] 336).
- $C_6H_{10}Cl_2$ *4) 1,2-Dichlorhexahydrobenzol. Sd. 196°₇₆₀ u. Zers. (*C. r.* 137, 242 *C.* 1903 [2] 665).
 *6) 1,4-Dichlorhexahydrobenzol. Sd. 189°₇₆₁ (*C. r.* 137, 241 *C.* 1903 [2] 665).
 *3) 1,2-Dibromhexahydrobenzol. Sd. 116°₈₅ (*Soc.* 85, 1414 *C.* 1904 [2] 1736).
- $C_6H_{10}S_2$ *1) Diallyldisulfid. Sd. 77—82°₁₆ (*B.* 36, 2265 *C.* 1903 [2] 562).
- $C_6H_{11}N$ *3) 1,5-Dimethyl-2,3-Dihydropyrrol (*G.* 33 [2] 317 *C.* 1904 [1] 292).
- $C_6H_{11}Cl$ *7) Chlorhexahydrobenzol. Sd. 141,6—142,6° (*C. r.* 137, 241 *C.* 1903 [2] 664).
- $C_6H_{12}O$ *3) δ -Oxy- δ -Methyl- α -Penten (*C.* 1903 [2] 1415).
 *13) Oxyhexahydrobenzol. Sm. 155,5° (*Bl.* [3] 29, 1052 *C.* 1903 [2] 1437; *C. r.* 137, 1026 *C.* 1904 [1] 280; *C.* 1904 [1] 727; *C. r.* 137, 1269 *C.* 1904 [1] 454).
 *18) Hexan- $\alpha\epsilon$ -Oxyd. Sd. 102—104° (*M.* 23, 1090 *C.* 1903 [1] 384).
 *24) γ -Ketohehexan. Sd. 145—147° (*C.* 1903 [1] 1023; *B.* 36, 2715 *C.* 1903 [2] 987).
 *28) Pinakolin (*Bl.* [3] 29, 597 *C.* 1903 [2] 396).

- C₆H₁₂O** *34) Aldehyd d. Isobutylessigsäure (*C. r.* 137, 989 *C. 1904* [1] 257).
 43) Aldehyd d. Pentan- γ -Carbonsäure. *Sd.* 117—118° (*C. r.* 138, 91 *C. 1904* [1] 505; *Bl.* [3] 31, 305 *C. 1904* [1] 1133).
- C₆H₁₂O₂** *1) 1,2-Dioxyhexahydrobenzol (*Bl.* [3] 29, 234 *C. 1903* [1] 970).
 *11) β -Oxy- δ -Keto- β -Methylpentan (*M.* 24, 767 *C. 1904* [1] 158).
 *16) i - β -Methylbutan- α -Carbonsäure. *Sd.* 197—198° (*D.R.P.* 150880 *C. 1904* [2] 70).
 *18) β -Methylbutan- β -Carbonsäure. *Sd.* 186°₇₅₂ (*A.* 327, 210 *C. 1903* [1] 1407).
 *26) Methylester d. Isovaleriansäure (*B.* 37, 3659 *C. 1904* (2) 1452).
 46) isom. 1,2-Dioxyhexahydrobenzol. *Sm.* 104°; *Sd.* 236°₇₉₀ (*C. r.* 136, 383 *C. 1903* [1] 711; *Bl.* [3] 29, 231 *C. 1903* [1] 970).
 47) Aethyläther d. α -Oxy- β -Ketobutan. *Sd.* 145—146° (*C. r.* 138, 91 *C. 1904* [1] 505).
 48) Säure (aus Naphta) (*C. 1903* [1] 1134).
- C₆H₁₂O₃** *11) γ -Oxyisocaproonsäure (γ -Oxy- β -Methylbutan- δ -Carbonsäure). *Sd.* 173 bis 175°₄₅ (*M.* 24, 250 *C. 1903* [2] 238).
 *21) β -Oxy- α -Aethylbuttersäure. *Ca*, *Ba*, *Zn* + *H*₂*O* (*A.* 334, 113 *C. 1904* [2] 888).
 *23) β -Oxy- α - α -Dimethylbuttersäure (γ -Oxy- β -Methylbutan- β -Carbonsäure). *Sd.* 150°₂₂ (*M.* 24, 248 *C. 1903* [2] 237).
 *25) Diäthylglykolsäure (*A.* 334, 101 *C. 1904* [2] 888).
 *33) Metaldehyd (*Ph. Ch.* 43, 132 *C. 1903* [1] 1078).
 *34) Paraldehyd (*Ph. Ch.* 43, 133 *C. 1903* [1] 1078).
 *44) Propylester d. d - α -Oxypropionsäure. *Sd.* 61—63°₁₁₋₁₂ (*C. 1903* [2] 1419).
 *57) ϵ -Dioxy- β -Ketohehexan. *Sd.* 170—175°₃ (*C. r.* 137, 14 *C. 1903* [2] 508).
 61) γ -Oxy- β -Aethylbuttersäure. *Ca* + 2*H*₂*O*, *Ba* (*B.* 36, 1204 *C. 1903* [1] 1176).
 62) α -Oxy- β -Methylbutan- β -Carbonsäure. *Sm.* 56°. *K* (*Bl.* [3] 31, 319 *C. 1904* [1] 1134).
 63) Aldehyd d. Dioxyessigdiäthyläthersäure. *Sd.* 80—90° (*B.* 36, 1935 *C. 1903* [2] 189).
 64) Methylester d. α -Oxy- β -Methylpropan- β -Carbonsäure. *Sd.* 177—178°₇₄₀ (*Bl.* [3] 31, 122 *C. 1904* [1] 644).
 65) Aethylester d. β -Oxybuttersäure. *Sd.* 170° (*B.* 37, 1277 *C. 1904* [1] 1335).
 66) Aethylester d. γ -Oxybuttersäure. *Sd.* 65—70°₁₁ (*B.* 37, 1277 *C. 1904* [1] 1335).
 67) Propylester d. l - α -Oxypropionsäure. *Sd.* 60—61°₁₀₋₁₁ (*C. 1903* [2] 1419).
 68) Monacetat d. α -Dioxy- β -Methylpropan. *Sd.* 122—125° (125°₇₈₀) (*C. r.* 137, 758 *C. 1903* [2] 1415; *Bl.* [3] 31, 17 *C. 1904* [1] 504).
- C₆H₁₂O₄** *10) Hexerinssäure. *Sm.* 144,5—145°. *Ca* + 2*H*₂*O* (*A.* 334, 107 *C. 1904* [2] 888).
 23) α -Dioxy- β - β -Dimethylpropan- α -Carbonsäure. *Ca* + 3*H*₂*O*, *Ag* + 8*H*₂*O* (*M.* 25, 49 *C. 1904* [1] 717).
- C₆H₁₂O₅** *6) Fukose (*B.* 37, 299 *C. 1904* [1] 647; *B.* 37, 3859 *C. 1904* [2] 1712).
 *16) Rhodeose. *Sm.* 144° (*B.* 37, 3859 *C. 1904* [2] 1712).
 17) l -Quercit + *H*₂*O*. *Sm.* 174° (*Soc.* 85, 625 *C. 1904* [2] 329).
 18) r -Rhodeose. *Sm.* 161° (*B.* 37, 3860 *C. 1904* [2] 1712).
 19) Isorhodeose (*C. 1904* [1] 581).
- C₆H₁₂O₆** *7) d -Galaktose (*B.* 36, 4373 *C. 1904* [1] 462).
 *14) d -Glykose (*C. 1903* [1] 1019; *A.* 331, 359 *C. 1904* [1] 1555).
 *28) d -Mannose (*C. 1904* [1] 191).
 *30) i -Mannose (*H.* 37, 545 *C. 1903* [1] 1217).
 *55) polym. Trioxymethylen + *H*₂*O* (*C. r.* 138, 1227 *C. 1904* [2] 22).
 *59) α -Glykose (*Soc.* 83, 1313 *C. 1904* [1] 86).
 *60) β -Glykose (*Soc.* 83, 1312 *C. 1904* [1] 86).
 70) Cacaose + *H*₂*O*. *Sm.* 89—90° (*J. pr.* [2] 66, 408 *C. 1903* [1] 527).
 51) Fukonsäure. *K* + 1½*H*₂*O*, *Ca* + 5*H*₂*O*, *Ba*, *Sr* (*B.* 37, 308 *C. 1904* [1] 649).
- C₆H₁₂N₂** *9) Nitril d. Diäthylamidoessigsäure. *Sd.* 170° (*B.* 36, 4189 *C. 1904* [1] 262; *C. 1904* [2] 1377; *B.* 37, 4089 *C. 1904* [2] 1724).

- $C_6H_{12}N_2$ 10) Aethylenyl- $\alpha\delta$ -Tetrametylendiamin. *Sd.* 220°₁₂. (2HCl, PtCl₄), Pikrat (*B.* 36, 338 *C.* 1903 [1] 703).
- 11) Nitril d. α -Dimethylamidoisobuttersäure. *Sd.* 152° (*C.* 1904 [2] 945).
- $C_6H_{12}N_4$ *1) Hexamethylentetramin. (HCl, AuCl₃) (*C.* 1903 [1] 439; *A.* 334, 56 *C.* 1904 [2] 949).
- 2) *s*-Aethylcarbylaminäthylguanidin. *Sm.* 90—91° (*Bl.* [3] 31, 610 *C.* 1904 [2] 29).
- $C_6H_{12}Br_2$ *2) $\alpha\epsilon$ -Dibromhexan. *Sd.* 115—116°₂₀ (*M.* 23, 1089 *C.* 1903 [1] 384).
- *9) $\beta\gamma$ -Dibrom- $\beta\gamma$ -Dimethylbutan. *Sm.* 140° u. *Zers.* (*B.* 37, 547 *C.* 1904 [1] 866).
- $C_6H_{12}J_2$ *1) $\alpha\zeta$ -Dijodhexan. *Sm.* 9,5°; *Sd.* 163°_{17.5} (*C. r.* 136, 244 *C.* 1903 [1] 583).
- $C_6H_{12}S_3$ *1) α -Trithioacetaldehyd. *Sm.* 101° (*C.* 1904 [2] 21).
- *2) β -Trithioacetaldehyd. *Sm.* 125—126° (*C.* 1904 [2] 21).
- 5) γ -Trithioacetaldehyd. *Sm.* 76° (*C.* 1904 [2] 21).
- $C_6H_{13}N$ *6) Amidohexahydrobenzol. *Sd.* 134°. HCl (*C. r.* 138, 457 *C.* 1904 [1] 884).
- *12) 1-Methylhexahydropyridin. HCl, (2 HCl, PtCl₄), Pikrat (*B.* 37, 3234 *C.* 1904 [2] 1153).
- *15) *r*-3-Methylhexahydropyridin. Bitartrat (*B.* 36, 1650 *C.* 1903 [2] 123).
- 21) α -Propylimidopropan. *Sd.* 101—102° (*C.* 1904 [2] 945).
- 22) Isobutylimidoäthan. *Sd.* 90—91° (*C.* 1904 [2] 945).
- 23) *d*-3-Methylhexahydropyridin. Bitartrat (*B.* 36, 1650 *C.* 1903 [2] 123).
- 24) 1-3-Methylhexahydropyridin. Bitartrat (*B.* 36, 1650 *C.* 1903 [2] 123).
- $C_6H_{11}O$ *1) α -Oxyhexan. *Sd.* 156° (*C. r.* 138, 149 *C.* 1904 [1] 577).
- *2) β -Oxyhexan. *Sd.* 127° (*C. r.* 137, 302 *C.* 1903 [2] 708).
- *6) γ -Oxy- β -Methylpentan. *Sd.* 112,5° (*C. r.* 137, 302 *C.* 1903 [2] 708).
- *10) γ -Oxy- γ -Methylpentan. *Sd.* 121—123°₇₀₀ (*C.* 1903 [2] 1415; *C. r.* 137, 758 *C.* 1903 [2] 1415; *Bl.* [3] 31, 17 *C.* 1904 [1] 504).
- *12) γ -Oxy- $\beta\beta$ -Dimethylbutan (*C.* 1903 [2] 1415).
- *19) Aethyläther d. β -Oxy- β -Methylpropan. *Sd.* 67—68° (*C.* 1903 [1] 1119; 1904 [1] 1065).
- *20) Dipropyläther. *Sd.* 89—91° (*G.* 33 [2] 420 *C.* 1904 [1] 922).
- *21) Diisopropyläther. *Sd.* 70—70,5° (*C.* 1904 [2] 18).
- 23) α -Oxy- $\beta\beta$ -Dimethylbutan. *Sd.* 135° (*Bl.* [3] 31, 749 *C.* 1904 [2] 303).
- $C_6H_{14}O_2$ *1) $\alpha\epsilon$ -Dioxyhexan (*M.* 23, 1091 *C.* 1903 [1] 384).
- *2) $\alpha\zeta$ -Dioxyhexan. *Sm.* 42° (35°); *Sd.* 254°₇₀₇ (*C. r.* 136, 245 *C.* 1903 [1] 583; *C. r.* 137, 329 *C.* 1903 [2] 711).
- *9) Pinakon (*Bl.* [3] 29, 597 *C.* 1903 [2] 396).
- *10) Diäthyläther d. $\alpha\alpha$ -Dioxyäthan (*B.* 36, 188 *C.* 1904 [1] 638).
- 16) $\alpha\delta$ -Dioxy- $\beta\beta$ -Dimethylbutan. *Sd.* 123°₀ (*C. r.* 137, 329 *C.* 1903 [2] 710).
- 17) Dimethyläther d. $\alpha\delta$ -Dioxybutan. *Sd.* 132—133°₇₀₀ (*C. r.* 139, 977 *C.* 1904 [1] 1401).
- 18) Aethyläther d. $\alpha\beta$ -Dioxy- β -Methylpropan. *Sd.* 129° (*C. r.* 138, 91 *C.* 1904 [1] 504; *Bl.* [3] 31, 302 *C.* 1904 [1] 1133).
- $C_6H_{14}O_3$ *12) Diäthyläther d. Di[Oxymethyl]äther. *Sd.* 140° (*C. r.* 138, 1704 *C.* 1904 [2] 416).
- $C_6H_{14}O_5$ 3) Di[$\beta\gamma$ -Dioxypropyl]äther. *Sd.* 261—262°₂₇ (*A.* 335, 239 *C.* 1904 [2] 1204).
- $C_6H_{14}O_6$ *2) *d*-Idit (*C.* 1904 [2] 1291).
- *4) Mannit (*B.* 37, 299 *C.* 1904 [1] 647).
- *11) *d*-Sorbit (*C.* 1904 [2] 1291).
- $C_6H_{14}N_2$ *3) 1,4-Diamidohexahydrobenzol. H_3PO_4 (*A.* 328, 107 *C.* 1903 [2] 244).
- *5) 1,4-Dimethylhexahydro-1,4-Diazin. *Sd.* 131—132°₇₅₂. (2HCl, PtCl₄), (2HCl, 2AuCl₃), Pikrat (*B.* 37, 3516 *C.* 1904 [2] 1324).
- 20) $\epsilon\zeta$ -Diamido- α -Hexen. *Sd.* 185—190°. 2HCl, (2HCl, PtCl₄), Oxalat (*C.* 1904 [2] 1024).
- 21) 1-Amido-3-Methylhexahydropyridin. *Sd.* 160—165° (*C.* 1903 [1] 1034).
- 22) 1-Amido-4-Methylhexahydropyridin. *Sd.* 160—165° (*C.* 1903 [1] 1034).
- 23) Verbindung (aus $\alpha\delta$ -Diamidobutan u. Formaldehyd). *Sd.* 180—181°₃₀ (*B.* 36, 37 *C.* 1903 [1] 502).
- $C_6H_{15}N$ *10) Dipropylamin. (2HCl, PtCl₄) (*C.* 1904 [1] 923).
- *13) Triäthylamin. (HCl + 6HgCl₂) (*J. pr.* [2] 66, 471 *C.* 1903 [1] 561).
- 18) α -Isopropylamidopropan (Propylisopropylamin). (2HCl, PtCl₄) (*C.* 1904 [1] 923).
- $C_6H_{15}N_3$ *2) 1,3,5-Trimethylhexahydro-1,3,5-Triazin. *Sd.* 160—164°. HJ (D.R.P. 139394 *C.* 1903 [1] 678; *A.* 334, 226 *C.* 1904 [2] 899).

- $C_6H_{15}N_3$ 4) isom. 1,3,5-Trimethylhexahydro-1,3,5-Triazin. HJ, (HJ + CHJ_3), Pikrat (A. 334, 228 C. 1904 [2] 900).
- $C_6H_{10}N_2$ *7) $\alpha\beta$ -Di[Dimethylamido]äthan. Sd. 120—122°₇₄₅, 2HCl, Pikrat (B. 37, 3495 C. 1904 [2] 1319; B. 37, 3499 C. 1904 [2] 1321; B. 37, 3510 C. 1904 [2] 1322).
- C_6H_6Sn *1) Zinndimethyldiäthyl. Fl. (C. 1904 [1] 353).
2) Zinntrimethylpropyl. Sd. 129°₇₆₄ (C. 1904 [1] 353).
- C_6OCl_6 *1) Hexachlor-1-Keto-1,2-Dihydrobenzol. Sm. 106° (108—110°) (B. 37, 4008 C. 1904 [2] 1715; B. 37, 4021 C. 1904 [2] 1717).
- C_6OCl_5 *1) Oktochlor-1-Keto-1,2,3,4-Tetrahydrobenzol. Sm. 106—108° (B. 37, 4021 C. 1904 [2] 1717).
- $C_6O_3Cl_4$ *2) 2,3,5,6-Tetrachlor-1,4-Benzochinon. Sm. 289° (292°) (C. 1903 [2] 550; B. 36, 4390 C. 1904 [1] 444; B. 37, 2623 C. 1904 [2] 484).
- $C_6O_2Br_4$ *1) 3,4,5,6-Tetrabrom-1,2-Benzochinon. + Toluol, + Acetophenon (Am. 31, 90 C. 1904 [1] 802).

— 6 III —

- C_6HOCl_5 *1) Pentachloroxybenzol. Sm. 190—191°. NH_4 , Na, Ag (B. 37, 4017 C. 1904 [2] 1716).
- C_6HOCl_7 *1) 2,2,3,4,4,5,6-Heptachlor-1-Keto-1,2,3,4-Tetrahydrobenzol. Sd. 95° (B. 37, 4006 C. 1904 [2] 1715).
- $C_6HO_2Cl_3$ *1) 2,3,5-Trichlor-1,4-Benzochinon. Sm. 169—170° (B. 37, 4016 C. 1904 [2] 1716).
- $C_6H_2OCl_4$ *1) 2,3,4,6-Tetrachlor-1-Oxybenzol. Sm. 69—70°; Sd. 150°₁₆. Na (B. 37, 4010 C. 1904 [2] 1715).
4) 2,3,4,5-Tetrachlor-1-Oxybenzol. Sm. 67,5°; Sd. 190°₁₀ (Bl. [3] 27, 1174 C. 1903 [1] 232).
- $C_6H_2O_2Cl_4$ *3) 2,3,5,6-Tetrachlor-1,4-Dioxybenzol. Sm. 236° (J. pr. [2] 70, 33 C. 1904 [2] 1234).
- $C_6H_2O_2Br_2$ *1) 2,5-Dibrom-1,4-Benzochinon. Sm. 188° (C. 1903 [2] 550).
- $C_6H_4N_4S_2$ 1) Benzbithiodiazol (p-Phenylenbisdiazosulfid). Sm. 224—226° u. Zers. (Soc. 83, 1205 C. 1903 [2] 1328).
- $C_6H_2ClBr_3$ *1) 1-Chlor-2,4,6-Tribrombenzol. Sm. 80—81° (90—91°) (C. r. 136, 242 C. 1903 [1] 570; Am. 31, 374 C. 1904 [1] 1408).
- $C_6H_2ClJ_3$ 2) 2,4,6-Trijod-1-Chlorbenzol. Sm. 125—126° (B. 36, 2071 C. 1903 [2] 358).
C 38,1 — H 1,6 — O 8,4 — N 51,8 — M. G. 189.
- $C_6H_3ON_7$ 1) Azid d. 1,2,9-Benzisotetrazol-5-Carbonsäure. Sm. 103—104° (B. 36, 1116 C. 1903 [1] 1185).
- $C_6H_3OJ_3$ 3) 2,4,5-Trijod-1-Oxybenzol. Sm. 114° (C. r. 137, 1066 C. 1904 [1] 266).
- $C_6H_3O_2Cl_3$ *3) 2,3,5-Trichlor-1,4-Dioxybenzol. Sm. 138° (B. 37, 4017 C. 1904 [2] 1716).
- $C_6H_3O_4Cl$ 3) 3-Chlor-1,2-Pyron-5-Carbonsäure. Sm. 187—189° (B. 37, 3830 C. 1904 [2] 1614).
- $C_6H_3O_7N_3$ *3) Pikrinsäure. Rb (C. 1903 [1] 810; 1903 [2] 565; Ph. Ch. 46, 827 C. 1904 [1] 508).
- $C_6H_3O_5N_3$ *1) 2,4,6-Trinitro-1,3-Dioxybenzol. Sm. 175° (M. 25, 27 C. 1904 [1] 723).
- 4) isom. Trinitrodioxybenzol. Sm. 163° (M. 25, 574 C. 1904 [2] 907).
- $C_6H_3O_6N_3$ *1) 2,4,6-Trinitro-1,3,5-Trioxibenazol + H_2O . Sm. 160—161° (Am. 32, 173 C. 1904 [2] 950).
- $C_6H_3NBr_4$ *2) 2,3,4,6-Tetrabrom-1-Amidobenazol. Sm. 115° (A. 330, 58 C. 1904 [1] 1142).
- $C_6H_4OCl_2$ *1) 2,4-Dichlor-1-Oxybenzol. Sm. 43° (B. 37, 4030 C. 1904 [2] 1718).
5) 3,4-Dichlor-1-Oxybenzol. Sm. 64—65°; Sd. 145—146° (D. R. P. 156333 C. 1904 [2] 1673).
- $C_6H_4OBr_2$ *1) 2,4-Dibrom-1-Oxybenzol. Sm. 34—35° (Soc. 85, 1227 C. 1904 [2] 204, 1032).
- *2) 2,6-Dibrom-1-Oxybenzol. Sm. 57—59° (A. 334, 177 C. 1904 [2] 834).
- $C_6H_4OJ_2$ *1) 2,4-Dijod-1-Oxybenzol. Sm. 72° (C. r. 139, 65 C. 1904 [2] 590).
6) 3,4-Dijod-1-Oxybenzol. Sm. 83° (C. r. 136, 1078 C. 1903 [1] 1339).
7) 3,5-Dijod-1-Oxybenzol. Sm. 103—104° (C. r. 136, 237 C. 1903 [1] 574).

- $C_6H_4OJ_2$ 8) 3-Jod-1-Jodosobenzol. Zers. bei 124°. HNO_3 , H_2SO_4 , H_2CrO_4 (B. 37, 1302 C. 1904 [1] 1339).
- $C_6H_4O_2N_4$ 9) 1,2,3,9-Benzisotetrazol-5-Carbonsäure. Ag (B. 36, 1115 C. 1903 [1] 1184).
- $C_6H_4O_2Cl_2$ *4) 2,6-Dichlor-1,4-Dioxybenzol. Sm. 170° (C. 1903 [2] 550).
- $C_6H_4O_2J_2$ 3) 1,3-Dijodosobenzol (B. 37, 1304 C. 1904 [1] 1340).
- 4) 3-Jod-1-Jodosobenzol. Zers. bei 216–218° (B. 37, 1305 C. 1904 [1] 1340).
- $C_6H_4O_2N_2$ 2) 2-Nitro-1-Nitrosobenzol. Sm. 126–126,5° (B. 36, 3804 C. 1904 [1] 17; B. 36, 4176 C. 1904 [1] 264).
- 3) 3-Nitro-1-Nitrosobenzol. Sm. 85° (89–90,5°) (B. 36, 2530 C. 1903 [2] 491; B. 36, 3806 C. 1904 [1] 17).
- 4) 4-Nitro-1-Nitrosobenzol. Sm. 118,5–119° (B. 36, 3809 C. 1904 [1] 17; B. 36, 4177 C. 1904 [1] 264).
- $C_6H_4O_3N_4$ *2) Verbindung (aus Acetylen). Sm. 78° (G. 33 [2] 322 C. 1904 [1] 255).
- $C_6H_4O_3Br_2$ 4) 4,6-Dibrom-1,2,3-Trioxybenzol? Sm. 158° u. Zers. (B. 37, 113 C. 1904 [1] 585).
- $C_6H_4O_4N_2$ *1) 1,2-Dinitrobenzol. Sm. 118–118,5° (B. 36, 3805 C. 1904 [1] 17; B. 36, 4176 C. 1904 [1] 264).
- *2) 1,3-Dinitrobenzol. Sm. 71°. + $AlCl_3$ (C. 1903 [2] 194; Soc. 85, 1108 C. 1904 [2] 976).
- *3) 1,4-Dinitrobenzol. Sm. 173,5–174° (B. 36, 3829 C. 1904 [1] 19).
- *4) 2,4-Dinitroso-1,3-Dioxybenzol + $\frac{1}{2}H_2O$. Zers. bei 164–166° (B. 36, 736 C. 1903 [1] 840; B. 37, 1794 C. 1904 [1] 1612).
- *6) 1,2-Diazin-4,5-Dicarbonsäure. Sm. 212–213,5°. Ag_2 (B. 36, 3376 C. 1903 [2] 1192).
- 10) 1,3-Diazin-4,5-Dicarbonsäure + H_2O . Sm. 265° u. Zers. (NH_4), Cu + $\frac{1}{2}H_2O$, Ag_2 (B. 37, 3648 C. 1904 [2] 1513).
- $C_6H_4O_4J_2$ 2) 1,3-Dijodobenzol. Zers. bei 261° (B. 37, 1306 C. 1904 [1] 1340).
- $C_6H_4O_5N_2$ *1) 2,3-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).
- *2) 2,4-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).
- *3) 2,5-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).
- *4) 2,6-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).
- *5) 3,4-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).
- *6) 3,5-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).
- $C_6H_4O_5S$ 1) 1,4-Benzochinon-2-Sulfonsäure. NH_4 , K (J. pr. [2] 69, 341 C. 1904 [2] 37).
- $C_6H_4O_6N_2$ *6) Pyrazol-3,4,5-Tricarbonsäure + $2H_2O$. Sm. 230° (A. 325, 184 C. 1903 [1] 646).
- $C_6H_4O_6N_4$ 4) Verbindung (aus Acetylen). Sd. 112°, (G. 33 [2] 322 C. 1904 [1] 256).
- $C_6H_4O_7N_2$ C 33,3 — H 1,8 — O 51,8 — N 13,0 — M. G. 216.
- 1) 4,6-Dinitro-1,2,3-Trioxybenzol. Sm. 208° (B. 37, 120 C. 1904 [1] 586).
- $C_6H_4NCl_3$ *1) 2,3,4-Trichlor-1-Amidobenzol. Sm. 65–68° (A. 330, 56 C. 1904 [1] 1142).
- 6) 2,3,5-Trichlor-4-Methylpyridin. Sm. 31–31,5° (Soc. 83, 399 C. 1903 [1] 841, 1141).
- $C_6H_4NJ_3$ *1) 2,4,6-Trijod-1-Amidobenzol. Sm. 185° (B. 36, 2070 C. 1903 [2] 358).
- 3) 2,4,5-Trijod-1-Amidobenzol. Sm. 116° (C. r. 137, 1066 C. 1904 [1] 266).
- $C_6H_4N_2Cl_2$ *1) 1,4-Di[Chlorimido]-1,4-Dihydrobenzol. Sm. 126° u. Zers. (B. 37, 1498 C. 1904 [1] 1414).
- $C_6H_4N_2Br_2$ *3) 2,6-Dibrom-1,4-Diimido-1,4-Dihydrobenzol. HCl , HBr (Am. 31, 210 C. 1904 [1] 1073).
- $C_6H_4N_2S_4$ 1) 3,6-Diamido-1,2,4,5-Tetrathiocarbonyl-1,2,4,5-Tetrahydrobenzol (Soc. 83, 1211 C. 1903 [2] 1329).
- $C_6H_4N_3Cl$ 3) 4-Chlor-1,2,3-Benzotriazol. Sm. 156° (B. 36, 4028 C. 1904 [1] 294).
- $C_6H_4N_3Br$ 1) 4-Nitrobenzoldiazoniumazid (B. 36, 2057 C. 1903 [2] 356).
- $C_6H_4N_3Fe$ *1) Ferrocyanwasserstoffsäure (C. r. 137, 65 C. 1903 [2] 348).
- $C_6H_4Cl_3J_2$ 2) 3-Jod-1-Dichlorjodosobenzol (3-Jodphenyljodidichlorid). Zers. bei 112° (B. 37, 1301 C. 1904 [1] 1339).
- $C_6H_4Cl_4J_2$ 2) 1,3-Di[Dichlorjodoso]benzol (1,3-Phenylendijodidtetraclorid). Zers. bei 122° (B. 37, 1301, 1305 C. 1904 [1] 1339).
- C_6H_5OCl *1) 2-Chlor-1-Oxybenzol (D.R.P. 141751 C. 1903 [1] 1324; D.R.P. 155631 C. 1904 [2] 1486).
- C_6H_5OBr *3) 4-Brom-1-Oxybenzol. + H_3PO_4 (Sm. 65–75°) (R. 21, 354 C. 1903 [1] 151).

- C_6H_5OJ *3) 3-Jod-1-Oxybenzol (*A.* 332, 66 *C.* 1904 [2] 42).
 *5) Jodosobenzol (*B.* 36, 2996 *C.* 1903 [2] 932).
- $C_6H_5O_2N$ *1) Nitrobenzol (*B.* 36, 971 *C.* 1903 [1] 1066; *B.* 36, 1110 *C.* 1903 [1] 1333).
 *3) Pyridin-2-Carbonsäure (*M.* 24, 199 *C.* 1903 [2] 48).
 *4) Pyridin-3-Carbonsäure (*M.* 24, 200 *C.* 1903 [2] 48).
 *5) Pyridin-4-Carbonsäure (*M.* 24, 200 *C.* 1903 [2] 48).
- $C_6H_5O_3N$ *1) 2-Nitro-1-Oxybenzol. Na, K + $\frac{1}{2}H_2O$, Rb + $\frac{1}{2}H_2O$ (*Am.* 30, 312 *C.* 1903 [2] 1116).
 *2) 3-Nitro-1-Oxybenzol. Na, K + H_2O , Rb, Cs (*Am.* 30, 317 *C.* 1903 [2] 1116; *J. pr.* [2] 68, 480 *C.* 1904 [1] 443).
 *3) 4-Nitro-1-Oxybenzol. Na + $4H_2O$, K + H_2O , Rb + H_2O , Cs + $3H_2O$ (*Am.* 30, 318 *C.* 1903 [2] 1116; *J. pr.* [2] 68, 484 *C.* 1904 [1] 444).
 *4) 4-Nitroso-1,3-Dioxybenzol (*B.* 35, 4192 *C.* 1903 [1] 145).
- $C_6H_5O_3Br$ 4) 4-Brom-1,2,3-Trioxybenzol. Zers. oberb. 120° (*B.* 37, 112 *C.* 1904 [1] 584).
 5) 2-Brommethylfuran-5-Carbonsäure. Sm. $147-148^\circ$ (*Am.* 15, 180).
 — *III, 507.
- $C_6H_5O_4N$ *1) 3-Nitro-1,2-Dioxybenzol. Sm. $85,5^\circ$ (*J. pr.* [2] 68, 477 *C.* 1904 [1] 443; *J. pr.* [2] 68, 481 *C.* 1904 [1] 444).
 *2) 4-Nitro-1,2-Dioxybenzol. Sm. $175,5-176,5^\circ$ (*J. pr.* [2] 68, 477 *C.* 1904 [1] 443; *J. pr.* [2] 68, 482 *C.* 1904 [1] 444).
 *3) 2-Nitro-1,3-Dioxybenzol. Sm. 85° (*D.R.P.* 145190 *C.* 1903 [2] 973; *B.* 37, 725 *C.* 1904 [1] 1005).
- $C_6H_5O_4N_3$ *3) 4-Nitro-1-Nitramidobenzol. Sm. 110° (*A.* 330, 36 *C.* 1904 [1] 1141).
 $C_6H_5O_5N$ 7) 4-Nitro-1,2,3-Trioxybenzol. Sm. 162° (NH_3), K_2 , + 2 Chinolin (*B.* 37, 114 *C.* 1904 [1] 585).
 8) Methylester d. β -Nitrofuran-2-Carbonsäure. Sm. $78,5^\circ$ (*C. r.* 137, 520 *C.* 1903 [2] 1069).
- $C_6H_5O_5N_3$ *1) 4,6-Dinitro-2-Amido-1-Oxybenzol (*C.* 1904 [2] 1385).
 $C_6H_5O_6N_5$ *1) 2,4,6-Trinitro-1,3-Diamidobenzol (*R.* 21, 324 *C.* 1903 [1] 79).
 *2) β -Nitroisallitursäure. Sm. $170-195^\circ$ u. Zers. (*A.* 333, 122 *C.* 1904 [2] 894).
- $C_6H_5O_5N_2$ 1) Verbindung (aus d. Verb. $C_{12}H_{15}O_{10}N_{12}$) = $(C_6H_5O_5N_2)_x$. Ag (*M.* 25, 118 *C.* 1904 [1] 1553).
- $C_6H_5NCl_2$ *2) 2,4-Dichlor-1-Amidobenzol. Sm. $61-62^\circ$ (*C.* 1903 [2] 549).
 $C_6H_5NBr_2$ *1) 2,4-Dibrom-1-Amidobenzol. Sm. 80° (*C.* 1903 [2] 549).
 *3) 2,6-Dibrom-1-Amidobenzol. Sm. $82-83^\circ$ (*A.* 329, 217 *C.* 1903 [2] 1427).
- $C_6H_5NJ_2$ *1) 2,4-Dijod-1-Amidobenzol. Sm. $95-96^\circ$ (*C.* 1903 [2] 550; *C. r.* 139, 64 *C.* 1904 [2] 590).
 *3) 3,5-Dijod-1-Amidobenzol. Sm. 107° (*C. r.* 136, 237 *C.* 1903 [1] 574).
 4) 2,6-Dijod-1-Amidobenzol. Sm. 122° (*C. r.* 138, 1505 *C.* 1904 [2] 319).
 5) 3,4-Dijod-1-Amidobenzol. Sm. $74,5^\circ$ (*C. r.* 136, 1078 *C.* 1903 [1] 1339).
- $C_6H_5N_2Br_3$ 4) 3,4,5-Tribrom-1,2-Diamidobenzol. Sm. 91° . HCl (*Am.* 30, 78 *C.* 1903 [2] 356).
- $C_6H_5N_3F$ 1) Diazobenzolfluorid. HF (*B.* 36, 2059 *C.* 1903 [2] 357).
 C_6H_5ClS *1) 4-Chlor-1-Merkaptobenzol. Sm. 54° (*C. r.* 138, 982 *C.* 1904 [1] 1413).
 2) Chlor-1-Merkaptobenzol. Sd. $205-206^\circ$ (*C.* 1904 [2] 1176).
- $C_6H_5Cl_2J$ *1) Jodbenzoldichlorid (*C. r.* 136, 242 *C.* 1903 [1] 570).
 $C_6H_5Cl_3Si$ *1) Siliciumphenyltrichlorid (*B.* 37, 1139 *C.* 1904 [1] 1257).
 C_6H_5BrS *1) 4-Brom-1-Merkaptobenzol. Sm. $70-71^\circ$ (*C. r.* 138, 982 *C.* 1904 [1] 1413).
- $C_6H_5ON_2$ *1) 4-Nitroso-1-Amidobenzol. Sm. 175° (*B.* 36, 3830 *C.* 1904 [1] 19).
 C_6H_5OS *1) 2-Merkapto-1-Oxybenzol (*C.* 1904 [2] 1176).
 $C_6H_5O_3N_2$ *4) 4-Nitro-1-Amidobenzol. Sm. 147° (*B.* 36, 3829 *C.* 1904 [1] 19; *D.R.P.* 148749 *C.* 1904 [1] 554).
 *5) Oxynitrosoamidobenzol. Sm. 59° . Ba + H_2O (*A.* 329, 192 *C.* 1903 [2] 1414; *G.* 33 [2] 242 *C.* 1904 [1] 24).
 *9) 1,4-Dioximido-1,4-Dihydrobenzol. Zers. bei $230-240^\circ$ (*B.* 36, 4137 *C.* 1904 [1] 185).
- *16) 3-Amidopyridin-4-Carbonsäure (*M.* 23, 944 *C.* 1903 [1] 296).
 *21) 4-Amidopyridin-3-Carbonsäure (*M.* 23, 945 *C.* 1903 [1] 296).

- $C_6H_5O_2N_2$ 24) 4-Nitroso-3-Amido-1-Oxybenzol. Sm. 200° u. Zers. (B. 37, 2278 C. 1904 [2] 434).
- $C_6H_5O_2N_4$ *6) Heteroxanthin (C. 1904 [2] 1421).
- $C_6H_5O_2S$ *1) Benzolsulfonsäure. Sm. 84°. $Na + H_2O, Mg_2 + 6H_2O, Ag$ (B. 35, 4114 C. 1903 [1] 82; B. 37, 2153 C. 1904 [2] 186).
- $C_6H_5O_3N_2$ 19) Imid d. α -Imido- γ -Ketobutan- $\alpha\beta$ -Dicarbonsäure (A. 332, 135 C. 1904 [2] 190).
- $C_6H_5O_3S$ *1) Benzolsulfonsäure. $NH_4 + HF$, Methylaminsalz, Aethylaminsalz, Diäthylaminsalz, Anilinsalz (A. 328, 145 C. 1903 [2] 992; B. 37, 3804 C. 1904 [2] 1564).
- $C_6H_5O_4N_2$ *9) 2-Methylimidazol-4,5-Dicarbonsäure (B. 37, 701 C. 1904 [1] 1562).
- *12) 4-Methylpyrazol-3,5-Dicarbonsäure + H_2O . Sm. 313° (315° u. Zers.) (B. 36, 1131 C. 1903 [1] 1139; A. 325, 182 C. 1903 [1] 646).
- 13) 4,5-Diacetyl-1,2,3,6-Dioxdiazin (Diacetylglyoximhyperoxyd). Fl. (C. 1903 [2] 1432).
- 14) Verbindung (aus 1,4-Dinitrobenzol). K_2 (B. 36, 4177 C. 1904 [1] 264).
- $C_6H_5O_4N_4$ 11) Isoallitursäure. Sm. 258—260° u. Zers. Ag_2 (A. 333, 118 C. 1904 [2] 893).
- $C_6H_5O_4S$ *3) 4-Oxybenzol-1-Sulfonsäure. ($NH_4 + HF$) (A. 328, 146 C. 1903 [2] 992).
- $C_6H_5O_4S_2$ *1) Benzol-1,3-Disulfonsäure. Fl. $K_2, Zn + 3H_2O$ (B. 36, 189 C. 1903 [1] 467; J. pr. [2] 68, 315 C. 1903 [2] 1170).
- 2) Benzol-1,4-Disulfonsäure. K_2, Ba (J. pr. [2] 68, 330 C. 1903 [2] 1171).
- $C_6H_5O_4S_4$ *1) Benzol-1,3-Di[Thiolsulfonsäure]. K_2 (J. pr. [2] 68, 329 C. 1903 [2] 1171).
- $C_6H_5O_5S$ 10) 1,2-Dioxybenzol- β -Sulfonsäure (D. R. P. 137119 C. 1903 [1] 112).
- $C_6H_5O_6N_2$ *3) Dimethylester d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsäure. Sd. 151°₁₀ (Bl. [3] 27, 1165 C. 1903 [1] 228).
- 4) Monoäthylester d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsäure. Sm. 103,5°. NH_4 (Bl. [3] 27, 1168 C. 1903 [1] 228).
- $C_6H_5O_6S$ *1) 1,2,3-Trioxybenzol- β -Sulfonsäure. $Sr + 2H_2O$ (C. r. 136, 760 C. 1903 [1] 1024).
- *4) 2-Methylfuran-5-Carbonsäure-4-Sulfonsäure. $K_2 + 2H_2O$ (Am. 32, 189 C. 1904 [2] 1138).
- $C_6H_5O_6Hg_2$ 1) Verbindung (aus Essigsäureanhydrid u. Merkuriacetat) (B. 36, 3707 C. 1903 [2] 1240).
- $C_6H_5O_6S_2$ *2) 1,2,3-Trioxybenzol- β -Disulfonsäure. $Sr + 3H_2O, Ba_3$ (C. r. 136, 760 C. 1903 [1] 1024).
- C_6H_5NCl *3) 4-Chlor-1-Amidobenzol (Am. 29, 302 C. 1903 [1] 1165; C. r. 138, 1174 C. 1904 [2] 96).
- C_6H_5NJ *1) 2-Jod-1-Amidobenzol. Sm. 57° (M. 25, 956 C. 1904 [2] 1638).
- $C_6H_5N_2Br_2$ *3) 2,6-Dibrom-1,4-Diamidobenzol (Am. 31, 209 C. 1904 [1] 1073).
- 9) 2,5-Dibrom-1,4-Diamidobenzol. Sm. 183—184°. $2HCl$ (Am. 28, 458 C. 1903 [1] 322).
- $C_6H_5N_2S_2$ *1) 2,5-Diamido-1,4-Dithiocarbonyl-1,4-Dihydrobenzol. Sm. 234—235° u. Zers. $HCl, 2HCl$ (Soc. 83, 1208 C. 1903 [2] 1328).
- C_6H_7ON *1) 2-Amido-1-Oxybenzol (J. pr. [2] 68, 473 C. 1904 [1] 442).
- *2) 3-Amido-1-Oxybenzol (J. pr. [2] 68, 474 C. 1904 [1] 443).
- *3) 4-Amido-1-Oxybenzol (J. pr. [2] 68, 479 C. 1904 [1] 443; D. R. P. 150800 C. 1904 [1] 1235).
- *11) 2-Keto-1-Methyl-1,2-Dihydropyridin (B. 36, 1062 C. 1903 [1] 1267).
- *15) 2-Methylimidomethylfuran. Sd. 67°₈₀. $HCl, 2HCl, PtCl_4 + H_2O$, ($HCl, AuCl_3$) (A. 335, 371 C. 1904 [2] 1405).
- $C_6H_7ON_3$ *7) 4-Nitroso-1,3-Diamidobenzol (B. 37, 2276 C. 1904 [2] 433).
- C_6H_7OCl 2) 5-Chlor-1-Keto-1,2,3,4-Tetrahydrobenzol. Sd. 104°₂₄ (Soc. 83, 499 C. 1903 [1] 1028, 1352).
- C_6H_7OBr 1) 5-Brom-1-Keto-1,2,3,4-Tetrahydrobenzol. Sd. 132,5—133°₈₂ (Soc. 83, 500 C. 1903 [1] 1028, 1352).
- $C_6H_7O_2N$ *2) 4-Amido-1,3-Dioxybenzol (B. 35, 4195 C. 1903 [1] 145).
- *16) Nitril d. $\beta\delta$ -Diketopentan- γ -Carbonsäure. Sm. 50° (B. 37, 3386 C. 1904 [2] 1220).
- 30) β -Acetylamidofuran. Sm. 112° (C. r. 136, 1455 C. 1903 [2] 292).
- 31) 3-Acetyl-5-Methylisoxazol^p Sm. 22°; Sd. 177° (G. 34 [1] 49 C. 1904 [1] 1150).

- $C_6H_7O_2N$ 32) 5-Oxy-4-Keto-2-Methyl-1,4-Dihydropyridin + H_2O . Sm. 80° (170 bis 171° wasserfrei). $HCl + 2H_2O$ (*C. r.* 138, 507 *C. 1904* [1] 897).
- $C_6H_7O_2N_3$ *2) 4-Nitro-1,3-Diamidobenzol. Sm. 157° (*B.* 37, 2277 *C. 1904* [2] 433).
 *8) 4-Nitrophenylhydrazin (*C. 1903* [2] 1471).
 12) 4-Acetyl-amido-2-Keto-1,2-Dihydro-1,3-Diazin. Sm. noch nicht bei 300° (*Am.* 29, 500 *C. 1903* [1] 1311).
 13) 2-Acetyl-amido-4-Keto-3,4-Dihydro-1,3-Diazin. Sm. 247° (*Am.* 29, 504 *C. 1903* [1] 1311).
 14) 6-Hydrazidopyridin-3-Carbonsäure. Sm. 283° . H_2SO_4 (*B.* 36, 1113 *C. 1903* [1] 1184).
- $C_6H_7O_3N$ 19) 4-Amido-1,2,3-Trioxymethylbenzol. HCl (*B.* 37, 118 *C. 1904* [1] 586).
- $C_6H_7O_3Br_3$ *1) Aethylester d. $\alpha\alpha\gamma$ -Tribrom- β -Ketopropan- α -Carbonsäure (*C. 1904* [1] 1067).
- $C_6H_7O_4N_3$ *6) Dimethylviolursäure (*Soc.* 83, 18 *C. 1903* [1] 448).
 9) 5-Acetyl-amido-2,4,6-Triketo-hexahydro-1,3-Diazin. NH_4 , K, Ag (*A.* 333, 85 *C. 1904* [2] 827).
- $C_6H_7O_4Br$ 6) $\alpha\gamma$ -Lakton d. β -Brom- γ -Oxybutan- $\alpha\beta$ -Dicarbonsäure. Sm. 138° u. Zers. (*A.* 331, 140 *C. 1904* [1] 933).
- $C_6H_7O_5N_3$ 2) 2,4,6-Triketo-hexahydro-1,3-Diazin-5-Amidoessigsäure (Uramilo-essigsäure) (*A.* 333, 70 *C. 1904* [2] 772).
- $C_6H_7O_6N$ *2) α -Aethylester d. α -Nitroäthen- $\alpha\beta$ -Dicarbonsäure (α -Ae. d. Nitro-maleinsäure). K, Anilinsalz (*Am.* 32, 232 *C. 1904* [2] 1141).
- $C_6H_7O_{11}N_3$ 6) Trinitrat d. Salepschleim (*B.* 36, 3201 *C. 1903* [2] 1054).
- C_6H_7NS *3) Methyläther d. 2-Merkaptopyridin. Sd. 197° (*A.* 331, 251 *C. 1904* [1] 1222).
 *4) 2-Thiocarbonyl-1-Methyl-1,2-Dihydropyridin. Sm. 89° (*A.* 331, 248 *C. 1904* [1] 1222).
- C_6H_7NSe 1) 2-Selencarbonyl-1-Methyl-1,2-Dihydropyridin. Sm. $79-80^\circ$ (*A.* 331, 251 *C. 1904* [1] 1222).
 2) Methyläther d. 2-Selenopyridin. Sd. 212° (*A.* 331, 253 *C. 1904* [1] 1223).
- $C_6H_7N_2Cl$ *1) 4-Chlor-1,2-Diamidobenzol. Sm. 72° (76°). H_2SO_4 (*B.* 36, 4027 *C. 1904* [1] 294; *B.* 37, 555 *C. 1904* [1] 893).
- $C_6H_3ON_2$ *4) 3,4-Diamido-1-Oxybenzol. $2HCl$, $(2HCl, SnCl_2)$ (*B.* 37, 2278 *C. 1904* [2] 434).
 *12) 2-Keto-4,6-Dimethyl-2,5-Dihydro-1,3-Diazin. Sm. $198-199^\circ$ (*Am.* 32, 357 *C. 1904* [2] 1415).
 18) 3-Oximido-2,4-Dimethylisopyrrol. Na (*G.* 34 [1] 43 *C. 1904* [1] 1150).
 19) 3-Oximido-2,5-Dimethylisopyrrol. Na (*G.* 34 [1] 44 *C. 1904* [1] 1150).
 20) 3- oder 5-Acetyl-4-Methylpyrazol. Sm. $102-103^\circ$; Sd. $160-161^\circ_{26}$ (*B.* 36, 1131 *C. 1903* [1] 1139).
- $C_6H_3O_2N_2$ *18) 2,4-Diketo-3,6-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 261 bis 262° (*A.* 329, 349 *C. 1904* [1] 435).
 *20) 2,4-Diketo-5,6-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 292° u. Zers. (*Am.* 29, 489 *C. 1903* [1] 1309).
 22) 2-Methyläther d. 2,6-Dioxy-4-Methyl-1,3-Diazin. Sm. 207° . ($2HCl$, $PtCl_2$), Ag (*C. 1904* [2] 30).
 23) Dimethyläther d. 2,4-Dioxy-1,3-Diazin. Sm. 10° ; Sd. $204,5-205^\circ_{760}$. (HCl , $AuCl_3$), $2 + 3HgCl_2$ (*B.* 36, 3379 *C. 1903* [2] 1192).
 24) Dilaktam d. $\beta\gamma$ -Diamidobutan- $\alpha\delta$ -Dicarbonsäure + H_2O . $HCl + H_2O$ (*B.* 35, 4125 *C. 1903* [1] 136; *B.* 36, 172 *C. 1903* [1] 445).
 25) Cyanamid d. α -Acetylpropionsäure? Zers. bei 260° (*Am.* 29, 489 *C. 1903* [1] 1309).
 26) Methyl ester d. α -Cyan- β -Amidopropen- α -Carbonsäure. Sm. $181,5^\circ$ (*Bl.* [3] 31, 334 *C. 1904* [1] 1135).
 27) Verbindung (aus $\beta\gamma\epsilon$ -Trioximidohexan). Sm. 117° (*G.* 34 [1] 47 *C. 1904* [1] 1150).
- $C_6H_6O_2N_4$ 2) 1-Aethylidenamido-5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 153° u. Zers. (*B.* 36, 3617 *C. 1903* [2] 1381).
- $C_6H_6O_2Cl_2$ 5) $\gamma\gamma$ -Dichlor- $\beta\epsilon$ -Diketo-hexan. Sd. $124-126^\circ_{26}$ (*A.* 335, 261 *C. 1904* [2] 1283).

- $C_6H_5O_2Cl_3$ 1) $\beta\beta\beta$ -Trichlor- α -Oxyäthyläther d. $\alpha\alpha\alpha$ -Trichlor- β -Oxy- β -Methylpropan (Chloralacetonchloroform). Sm. 65° (D.R.P. 151188 C. 1904 [1] 1506).
- $C_6H_5O_2N_2$ *5) 2,4,6-Triketo-5-Aethylhexahydro-1,3-Diazin. Sm. 194° (D.R.P. 146948 C. 1904 [1] 68; A. 335, 357 C. 1904 [2] 1382).
- *7) 2,4,6-Triketo-5,5-Dimethylhexahydro-1,3-Diazin. Sm. 279°. Na_2 (D.R.P. 146496 C. 1903 [2] 1484; D.R.P. 146949 C. 1904 [1] 68; A. 335, 341, 364 C. 1904 [2] 1381).
- 21) 4,6-Diamido-1,2,3-Trioxylbenzol. 2HCl (B. 37, 121 C. 1904 [1] 586).
- 22) 2,4-Diketo-1-Acetyl-3-Methyltetrahydroimidazol. Sm. 134—135° (A. 333, 131 C. 1904 [2] 895).
- 23) 2,4-Diketo-1-Acetyl-5-Methyltetrahydroimidazol. Sm. 129—131° (A. 327, 383 C. 1903 [2] 661).
- 24) 5-Oxy-2,4-Diketo-3,6-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin (Oxy- β -Dimethyluracil) (A. 327, 264 C. 1903 [2] 349).
- 25) Oxyhistincarbonsäure + H_2O (Oxydesamidohistidin). Sm. 204° (M. 24, 237 C. 1903 [2] 55).
- 26) Aethylester d. 5-Methyl-1,2,3-Oxidiazol-4-Carbonsäure (Anhydrid d. Diazoacetessigsäureäthylester). Sd. 102—104°₁₂ (A. 325, 134 C. 1903 [1] 643).
- $C_6H_5O_3Br_2$ *2) Aethylester d. $\alpha\alpha$ -Dibrom- β -Ketopropan- α -Carbonsäure. Sd. 120—125°₁₂ (B. 36, 1731 C. 1903 [2] 37; C. 1904 [1] 1067).
- $C_6H_5O_4N_2$ 7) Verbindung (aus d. Verb. $C_6H_{12}O_4N_4$). Sm. 90° (B. 36, 4252 C. 1904 [1] 358; B. 36, 4366 C. 1904 [1] 358; B. 37, 48 C. 1904 [1] 506).
- $C_6H_5O_4Br_2$ *4) $\alpha\delta$ -Dibrombutan- $\alpha\delta$ -Dicarbonsäure. Sm. 191° (B. 37, 2090 C. 1904 [2] 23).
- 13) $\beta\gamma$ -Dibrombutan- $\alpha\beta$ -Dicarbonsäure. Sm. 174° u. Zers. (A. 331, 136 C. 1904 [1] 932).
- 14) $\gamma\delta$ -Dibrombutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 149—150° (B. 36, 1203 C. 1903 [1] 1175).
- 15) isom. $\alpha\delta$ -Dibrombutan- $\alpha\delta$ -Dicarbonsäure. Sm. 138—139° (B. 37, 2091 C. 1904 [2] 23).
- $C_6H_5O_7Se_2$ 1) Verbindung (aus Mannit). Zers. bei 190° (C. r. 136, 376 C. 1903 [1] 625).
- $C_6H_5O_{10}N_2$ C 26,9 — H 3,0 — O 59,7 — N 10,4 — M. G. 268.
- 1) Dimethylester d. Dinitroweinsäure. Sm. 75° (Soc. 83, 162 C. 1903 [1] 627).
- 2) Dimethylester d. Dinitrotraubensäure. Sm. 104° (B. 35, 4366 C. 1903 [1] 321).
- $C_6H_5N_2S_2$ 2) 2,5-Diamido-1,4-Dimerkaptobenzol. Sm. 178—181° u. Zers. 2HCl, ZnOH (Soc. 83, 1209 C. 1903 [2] 1328).
- C_6H_5ON 13) Anhydrid d. β -Amidohehexensäure. Sm. 109° (B. 37, 2360 C. 1904 [2] 423).
- $C_6H_5ON_3$ 9) Methylanhydrodiacetylguanidin. Sm. 238—255°. HCl + 3 H_2O , (2HCl, PtCl₄ + 3 H_2O) (Ar. 241, 462 C. 1903 [2] 988).
- 10) Amid d. 3,4-Dimethylpyrazol-1-Carbonsäure. Sm. 164—165° u. Zers. (A. 329, 133 C. 1903 [2] 1323).
- $C_6H_5ON_5$ 2) Hydrazid d. 6-Hydrazidopyridin-3-Carbonsäure + H_2O . Sm. 217—218°. 2HCl, Pikrat (B. 36, 1112 C. 1903 [1] 1184).
- $C_6H_5O_2N$ *8) Aethylester d. α -Cyanpropionsäure. Sd. 198° (C. 1903 [2] 713).
- 28) Furfurol + Methylamin. (2HCl, PtCl₄) (A. 335, 374 C. 1904 [2] 1406).
- 29) Nitril d. Butyroxyllessigsäure. Sd. 200°₇₅₈ (C. 1904 [2] 1377).
- $C_6H_5O_2N_3$ *7) Hystidin. Sm. 253°. HCl + H_2O , (HCl, CdCl₂) Pikrolonat (M. 24, 229 C. 1903 [2] 55; H. 37, 220, 248 C. 1903 [1] 566; H. 39, 212 C. 1903 [2] 581; H. 39, 213 C. 1903 [2] 581; H. 42, 508 C. 1904 [2] 1289; H. 43, 73 C. 1904 [2] 1610).
- 11) Äthyläther d. 1-Nitroso-5-Oxy-3-Methylpyrazol. Sm. 40° (B. 37, 2835 C. 1904 [2] 643).
- 12) Äthyläther d. 4-Nitroso-5-Oxy-3-Methylpyrazol. Sm. 126—127° u. Zers. (B. 37, 2835 C. 1904 [2] 643).
- 13) 5-Methylamido-2,4-Diketo-6-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin + H_2O . Sm. 214°. HCl (Am. 32, 355 C. 1904 [2] 1415).
- 14) 5-Dimethylamido-2,4-Diketo-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 297° u. Zers. (Am. 32, 355 C. 1904 [2] 1415).

- $C_6H_5O_2N_6$ 15) Aethyläther d. 6-Jmido-2-Oxy-4-Keto-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. 247° (D.R.P. 155732 C. 1904 [2] 1631).
- 16) Aethylester d. 5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 161 bis 162° (A. 325, 153 C. 1903 [1] 644).
- $C_6H_5O_2Cl$ *1) 2-Chlor-3-Keto-1-Oxyhexahydrobenzol. Sm. 130—135° u. Zers. (Soc. 83, 499 C. 1903 [1] 1352).
- $C_6H_5O_2Br$ 6) 2-Brom-3-Keto-1-Oxyhexahydrobenzol? Sm. 143—145° u. Zers. (Soc. 83, 500 C. 1903 [1] 1352).
- 7) Aethylester d. α -Brompropen- α -Carbonsäure. (Ae. d. α -Bromcroton-säure). Sd. 95—97°₁₅ (B. 36, 1085 C. 1903 [1] 1126).
- $C_6H_5O_2N_6$ *4) 5-Amido-2,4,6-Triketo-1,3-Dimethylhexahydro-1,3-Diazin (A. 333, 74 C. 1904 [2] 826).
- 12) 5-Amido-2,4,6-Triketo-5-Aethylhexahydro-1,3-Diazin. Sm. 216° u. Zers. (A. 335, 361 C. 1904 [2] 1382).
- 13) 5-Aethylamido-2,4,6-Triketohexahydro-1,3-Diazin (Aethyluramil). A. 333, 65 C. 1904 [2] 772).
- 14) Aethylester d. 1-Oxy-5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 147—148° (A. 325, 163 C. 1903 [1] 645).
- $C_6H_5O_2Cl$ 6) Aethylester d. γ -Chlor- β -Ketopropan- α -Carbonsäure. Sd. 105°₁₁. Cu (C. r. 138, 421 C. 1904 [1] 789).
- $C_6H_5O_2Br$ *3) Aethylester d. α -Brom- β -Ketopropan- α -Carbonsäure. Sd. 101 bis 104°₁₂ (B. 36, 1730 C. 1903 [2] 37; C. 1904 [1] 1067).
- $C_6H_5O_2J$ *1) Aethylester d. α -Jod- β -Ketopropan- α -Carbonsäure. Fl. (B. 36, 1731 C. 1903 [2] 37).
- $C_6H_5O_2N$ *4) Aethylester d. anti- α -Oximido- β -Ketopropan- α -Carbonsäure (B. 37, 47 C. 1904 [1] 506).
- 11) Methylester d. α -Acetoximidopropionsäure. Sm. 42°; Sd. 136°₁₄ (Bl. [3] 31, 1070 C. 1904 [2] 1457).
- 12) Aethylester d. γ -Oximido- β -Ketopropan- α -Carbonsäure. Sm. 50° (B. 36, 4252 C. 1904 [1] 357).
- $C_6H_5O_2N_3$ 5) Aethylester d. α -Oximido- β -Nitrosimidobuttersäure. NH_4 , K + H_2O , K_2 , Ba, Zn (C. 1903 [2] 1111; B. 36, 4250 C. 1904 [1] 357; B. 36, 4366 C. 1904 [1] 358; B. 37, 48 C. 1904 [1] 506).
- $C_6H_5O_4Br$ *6) α -Brom- β -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 140° (Soc. 83, 1383 C. 1904 [1] 158, 434).
- *12) γ - oder δ -Brombutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 110—111° (B. 36, 1203 C. 1903 [1] 1175).
- 13) β -Brombutan- $\alpha\delta$ -Dicarbonsäure. Sm. 147° u. Zers. (A. 326, 82 C. 1903 [1] 842).
- $C_6H_5O_2N$ 4) α -Nitro- β -Acetoxybuttersäure (C. 1903 [2] 554).
- $C_6H_5O_2B$ 1) Gem. Anhydrid d. Essigsäure u. Borsäure. Sm. 121° (B. 36, 2219 C. 1903 [2] 420).
- $C_6H_5O_2N$ C 34,8 — H 4,3 — O 54,1 — N 6,7 — M. G. 207.
- $C_6H_5O_2N$ 1) Nitrat d. 1- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäuredimethylester. Sm. 24 bis 25° (B. 35, 4363 C. 1903 [1] 320).
- $C_6H_5O_2N$ C 32,3 — H 4,0 — O 57,4 — N 6,3 — M. G. 223.
- 1) Dimethylester d. Mononitroweinsäure. Sm. 97° (Soc. 83, 162 C. 1903 [1] 627; B. 35, 4366 C. 1903 [1] 321; B. 36, 780 C. 1903 [1] 826).
- $C_6H_5O_2N_6$ *1) Mannitpentanitrat (B. 36, 797 C. 1903 [1] 956).
- 2) Dulcitolpentanitrat. Sm. 75° (B. 36, 799 C. 1903 [1] 956).
- $C_6H_5N_3S$ 8) Aethyläther d. 4-Amido-2-Merkapto-1,3-Diazin. Sm. 85—86° (Am. 29, 497 C. 1903 [1] 1311).
- $C_6H_{10}ON_2$ *4) Amid d. α -Cyanvaleriansäure. Sm. 124—124,5° (C. 1903 [2] 192).
- *10) 5-Keto-3-Propyl-4,5-Dihydropyrazol. Sm. 198° (Bl. [3] 27, 1091 C. 1903 [1] 226).
- *11) 5-Keto-3-Methyl-4-Aethyl-4,5-Dihydropyrazol. Sm. 195—196° (Bl. [3] 31, 593 C. 1904 [2] 26; Bl. [3] 31, 761 C. 1904 [2] 343).
- 12) Aethyläther d. 5-Oxy-3-Methylpyrazol. Sm. 66—67° (B. 37, 2834 C. 1904 [2] 643).
- 13) 2,5-Diäthyl-1,3,4-Oxdiazol. Sd. 198°₇₈₀ (J. pr. [2] 69, 481 C. 1904 [2] 537).
- 14) Nitril d. α -Acetylamidoisobuttersäure. Sm. 106° (B. 37, 1921 C. 1904 [2] 196).

- $C_6H_{10}O_2N_2$ 21) Aethylester d. α -Diazobuttersäure. Sd. $63-65^\circ_{11}$ (B. 37, 1274 C. 1904 [1] 1334).
- $C_6H_{10}O_2N_4$ 12) Bisdiazaoacetone. Sm. 228° u. Zers. (G. 34 [1] 202 C. 1904 [1] 1485).
- $C_6H_{10}O_2Br_2$ *6) $\beta\gamma$ -Dibrompentan- γ -Carbonsäure. Sm. $83,5^\circ$ (A. 334, 109 C. 1904 [2] 888).
- 15) isom. $\beta\gamma$ -Dibrompentan- γ -Carbonsäure. Sm. $116,5^\circ$ (A. 334, 109 C. 1904 [2] 888).
- $C_6H_{10}O_2S_2$ 3) Disulfid d. Thiolpropionsäure. Fl. (B. 36, 1010 C. 1903 [1] 1077).
- $C_6H_{10}O_3N_2$ *12) Triacetylhydrazin. Fl. (J. pr. [2] 69, 147 C. 1904 [1] 1274).
- $C_6H_{10}O_3N_4$ 1) Acetat d. α -Oximido- β -Semicarbazonpropan. Sm. 186° (C. 1903 [2] 1432).
- $C_6H_{10}O_4N_2$ *5) Diäthylester d. Azocarbonsäure. Sd. $111-112^\circ_{15}$ (P. GUTMANN, Dissert., Heidelberg 1903).
- 9) Acetylamidoacetylamidoessigsäure. Sm. $187-189^\circ$ (B. 36, 2115 C. 1903 [2] 346).
- 10) Aethylamid d. N-Acetoximidooxyessigsäure. Sm. 138° (Soc. 81, 1572 C. 1903 [1] 158).
- $C_6H_{10}O_4N_6$ C 31,3 — H 4,3 — O 27,8 — N 36,5 — M. G. 230.
- 1) Amid d. 1,3-Dinitrosohexahydro-1,3-Diazin-4,6-Dicarbonsäure. Sm. $192-193^\circ$ (G. 33 [1] 384 C. 1903 [2] 579).
- $C_6H_{10}O_4Se$ 1) α -Selendilaktylsäure. Sm. $145-146^\circ$. Ba, Ag_2 (B. 35, 4109 C. 1903 [1] 134).
- 2) β -Selendilaktylsäure. Sm. $106-107^\circ$. Ba, Ag_2 (B. 35, 4110 C. 1903 [1] 135).
- $C_6H_{10}O_5Hg_2$ 1) Oxyd (aus d. Verb. $C_4H_{22}O_{11}Hg_2$) (B. 36, 3703 C. 1903 [2] 1239).
- $C_6H_{10}O_6S$ 4) Di[α -Oxyäthyl]sulfid- $\alpha\alpha'$ -Dicarbonsäure (α -Merkaptodimilehsäure). Sm. 94° u. Zers. (87° u. Zers.) (A. 188, 325; R. 21, 297 C. 1903 [1] 16). — I, 897.
- $C_6H_{10}N_2S$ 3) 4-Thiocarbonyl-2,5,5-Trimethyl-4,5-Dihydroimidazol? Sm. 163° HCl (B. 37, 1924 C. 1904 [2] 196).
- 4) 2,5-Diäthyl-1,3,4-Thiadiazol. Sd. 105°_{14} (J. pr. [2] 69, 482 C. 1904 [2] 537).
- $C_6H_{10}N_2S_2$ 2) Aethylenäther d. $\alpha\delta$ -Diimido- $\alpha\delta$ -Dimerkaptobutan. HCl (B. 36, 3467 C. 1903 [2] 1244).
- $C_6H_{10}ClJ$ 1) 2-Jod-1-Chlorhexahydrobenzol. Sd. $117-118^\circ_{14}$ (C. r. 135, 1057 C. 1903 [1] 233).
- $C_6H_{11}ON$ *26) 2-Oximido-1-Methyl-R-Pentamethylen (A. 331, 325 C. 1904 [1] 1567).
- 32) d-3-Oximido-1-Methyl-R-Pentamethylen. Sm. $91-92,5^\circ$ (A. 332, 349 C. 1904 [2] 653).
- 33) isom. d-3-Oximido-1-Methyl-R-Pentamethylen. Sm. $60-68^\circ$ (A. 332, 349 C. 1904 [2] 653).
- $C_6H_{11}OCl_3$ 1) β -Trichlordipropyläther. Sd. $199-205^\circ$ (G. 33 [2] 426 C. 1904 [1] 922).
- $C_6H_{11}OJ$ 4) 2-Jod-1-Oxyhexahydrobenzol. Sm. $41,5-42^\circ$ (C. r. 135, 1055 C. 1903 [1] 233).
- $C_6H_{11}O_2N$ *4) β -Nitroso- δ -Keto- β -Methylpentan. Sm. $75,5^\circ$; Sd. $157-158^\circ_{765}$ (B. 36, 695 C. 1903 [1] 817; B. 36, 1069 C. 1903 [1] 1121).
- *16) Hygrinsäure + H_2O (1-Methyltetrahydropyrrol-2-Carbonsäure). Sm. $169-170^\circ$. HCl, (HCl, $AuCl_3$), Cu (A. 326, 122 C. 1903 [1] 843).
- *19) Aethylester d. β -Amidocrotonsäure. Sm. 33° (20°) (B. 36, 388 C. 1903 [1] 567; C. 1904 [1] 1067).
- 30) β -Nitroso- γ -Ketohehexan. Sd. $120-125^\circ_{90}$ (B. 36, 2715 C. 1903 [2] 987).
- 31) Acetylamid d. Isobuttersäure. Sm. $177-178^\circ$ (C. r. 137, 714 C. 1903 [2] 1428).
- $C_6H_{11}O_2N_3$ *3) Diamid d. Tetrahydropyrrol-2,2-Dicarbonsäure. Sm. $162-162,5^\circ$. Pikrat (A. 326, 101 C. 1903 [1] 842).
- 4) Monosemicarbazone d. $\beta\gamma$ -Diketopentan. Sm. 209° (B. 36, 3185 C. 1903 [2] 939).
- $C_6H_{11}O_2Br$ 17) α -Bromisocaproensäure. Sd. $128-131^\circ_{12}$ (B. 36, 2988 Ann. C. 1903 [2] 1112).
- $C_6H_{11}O_3N$ *4) Aethylester d. α -Amido- α -Acetylessigsäure. Acetat (G. 34 [1] 193 C. 1904 [1] 1333).

- $C_6H_{11}O_3N$ 22) β -Nitro- δ -Keto- β -Methylpentan. Krystalle; Sd. 118—119°₁₇ (B. 36, 658 C. 1903 [1] 762).
- 23) α -Acetylamidoisobuttersäure. K (B. 37, 1922 C. 1904 [2] 196).
- 24) δ -Oximido- β -Methylbutan- δ -Carbonsäure. Sm. 153—154° u. Zers. Ag (Bl. [3] 31, 1073 C. 1904 [2] 1457).
- 25) Isobutylester d. Oximidoessigsäure. Sd. 117—118°₁₀ (Bl. [3] 31, 678 C. 1904 [2] 195).
- 26) Monamid d. Propan- $\beta\beta$ -Dicarbonsäuremonomethylester. Sm. 85 bis 86° (Soc. 83, 1241 C. 1903 [2] 1421).
- 27) sec. Butylmonamid d. Oxalsäure. Sm. 88—89° (Ar. 242, 55 C. 1904 [1] 997).
- $C_6H_{11}O_3N_3$ 7) $\beta\gamma\epsilon$ -Trioximidohexan. Sm. 159° (G. 34 [1] 45 C. 1904 [1] 1150).
- 8) Acetat d. β -Semicarbazon- α -Oxypropan. Sm. 149—150° (145°) (C. r. 138, 1275 C. 1904 [2] 93; A. 335, 262, 269 C. 1904 [2] 1284).
- 9) Acetat d. α -Semicarbazon- β -Oxypropan. Sm. 163° (A. 335, 267 C. 1904 [2] 1284).
- 10) Acetylhydrazid d. Acetylamidoessigsäure. Sm. 183,5° (J. pr. [2] 70, 105 C. 1904 [2] 1036).
- $C_6H_{11}O_4N$ *14) Diäthylester d. Imidodicarbonsäure. Sm. 49—50°; Sd. 132—133°₁₂ (B. 36, 743 C. 1903 [1] 827).
- 18) α -Amidobutan- $\alpha\beta$ -Dicarbonsäure + H_2O . Sm. 110—112° (132° wasserfrei). Ag (B. 35, 4373 C. 1903 [1] 281).
- 19) α -Amidobutan- $\alpha\delta$ -Dicarbonsäure + H_2O . Sm. 204—206° (wasserfrei) (C. 1903 [2] 34).
- 20) Äthylester d. α -Nitrobuttersäure. Sd. 123°₃₀. Na (C. 1904 [2] 1600).
- 21) Isobutylester d. Nitroessigsäure. Sd. 102°₈. K (Bl. [3] 31, 853 C. 1904 [2] 641).
- 22) β -Amid d. α -Oxybutan- $\alpha\beta$ -Dicarbonsäure. Sm. 158—159° (B. 35, 4372 C. 1903 [1] 281).
- $C_6H_{11}O_4N_3$ 3) Amidoacetylamidoacetylamidoessigsäure (Diglycylglycin). Sm. 246° u. Zers. (B. 36, 2983 C. 1903 [2] 1111; B. 37, 2500 C. 1904 [2] 426).
- 4) Äthylester d. 1,2-Dioxytetrahydro-1,2,3-Triazol-4-Methylencarbonsäure. Sm. 70—71°. Ba + $8H_2O$, Ag (B. 36, 4254 C. 1904 [1] 358). C 30,9 — H 4,7 — O 34,4 — N 30,0 — M. G. 233.
- $C_6H_{11}O_5N_5$ 1) β -Semicarbazon- $\gamma\gamma$ -Dinitropentan. Sm. 143—144° u. Zers. (G. 34 [1] 412 C. 1904 [2] 304).
- 2) γ -Semicarbazon- $\beta\beta$ -Dinitropentan. Sm. 147—148° u. Zers. (G. 34 [1] 412 C. 1904 [2] 304).
- $C_6H_{11}O_6N_3$ *1) P-Trinitro- β -Methylpentan. Sm. 85° (C. 1903 [2] 194).
- $C_6H_{11}O_6N_6$ 1) Verbindung (aus d. Verb. $C_{12}H_{15}O_{16}N_{12}$). = $(C_6H_{11}O_6N_6)_x$ (M. 25, 120 C. 1904 [1] 1553).
- $C_6H_{11}O_6P$ 1) Säure (aus Mannit) (C. r. 137, 518 C. 1903 [2] 1053).
- $C_6H_{11}O_7P$ 1) Dulcidphosphorsäure + $\frac{1}{2}H_2O$ (C. r. 139, 638 C. 1904 [2] 1536).
- 2) Säure (aus Mannit). Ba (C. r. 136, 307 C. 1903 [1] 625).
- $C_6H_{11}O_8N$ C 32,0 — H 4,9 — O 56,9 — N 6,2 — M. G. 225.
- 1) Nitrat d. Cellulose (B. 37, 549 C. 1904 [1] 872).
- $C_6H_{11}NBr_2$ 1) P-Dibrom-1,5-Dimethyl-2,3-Dihydropyrrol. HBr (G. 33 [2] 318 C. 1904 [1] 292).
- $C_6H_{11}NF_4$ 1) $\beta\beta\beta\beta$ -Tetrafluortriäthylamin. Sd. 137°₇₆₄ (C. 1904 [2] 1377).
- $C_6H_{11}NS$ 6) Allylamid d. Thiopropionsäure. Sd. 136°₁₂ (B. 37, 877 C. 1904 [1] 1004).
- $C_6H_{11}N_2J$ *3) Jodmethylat d. 1,2-Dimethylimidazol. Sm. noch nicht bei 300° (Soc. 83, 470 C. 1903 [1] 931, 1143).
- 5) Jodmethylat d. 1,3-Dimethylpyrazol. Sm. 256° (Soc. 83, 468 C. 1903 [1] 931, 1143).
- 6) Jodmethylat d. 1,4-[oder 1,5-]Dimethylimidazol. Sm. 156° (Soc. 83, 466 C. 1903 [1] 931, 1143).
- $C_6H_{12}ON_2$ *4) Amid d. Hexahydropyridin-1-Carbonsäure. Sm. 93° (Bl. [3] 31 C. 1904 [1] 521).
- $C_6H_{12}OCl_2$ *2) Propyläther d. $\alpha\beta$ -Dichlor- α -Oxypropan. Sd. 165—170° (G. 33 [2] 424 C. 1904 [1] 922).
- $C_6H_{12}O_2N_2$ 30) $\alpha\alpha$ -Di[Formylamido]- β -Methylpropan. Sm. 172° (M. 25, 936 C. 1904 [2] 1598).
- 31) Methyläthylacetylarnstoff. Sm. 178,5° (A. 335, 367 C. 1904 [2] 1382).

- $C_6H_{12}O_2N_2$ 32) Ureid d. Methyläthylessigsäure. Sm. 178,5° (D. R. P. 144431 C. 1903 [2] 813).
- $C_6H_{12}O_2N_4$ 5) β -Oximido- γ -Semicarbazonpentan. Sm. 219° u. Zers. (G. 34 [1] 410 C. 1904 [2] 304).
- 6) γ -Oximido- β -Semicarbazonpentan. Sm. 222° u. Zers. (G. 34 [1] 411 C. 1904 [2] 304).
- $C_6H_{12}O_2N_6$ 2) cyclisches Semicarbazon (aus Oxymethylenaceton u. Semicarbazid). Zers. bei 232° (A. 329, 131 C. 1903 [2] 1323).
- $C_6H_{12}O_2Cl_2$ *2) Diäthyläther d. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. Sd. 181—184° (G. 33 [2] 405 C. 1904 [1] 922).
- $C_6H_{12}O_2N_2$ 8) Äthylester d. α -Ureidopropionsäure. Sm. 100° (93—94°) (Am. 28, 393 C. 1903 [1] 90; A. 327, 382 C. 1903 [2] 661).
- $C_6H_{12}O_2S$ 2) S-Methylhydroxyd d. Tetrahydrothiophen-2-Carbonsäure. Sm. 105°. Salze siehe (B. 31, 2290, 2294; 33, 839). — *III, 593.
- $C_6H_{12}O_4N_2$ *2) $\beta\gamma$ -Dinitro- $\beta\gamma$ -Dimethylbutan. Sm. 213—214° (B. 36, 1776 C. 1903 [2] 102).
- 18) $\beta\gamma$ -Diamidobutan- $\alpha\beta$ -Dicarbonsäure + 2H₂O. Zers. bei 265—280°. 2HCl (B. 35, 4124 C. 1903 [1] 136; B. 36, 173 C. 1903 [1] 445).
- 19) β -Diamidobutan- $\alpha\beta$ -Dicarbonsäure. Sm. 278° (B. 37, 1596 C. 1904 [1] 1449; H. 42, 283 C. 1904 [2] 958).
- 20) Dinitrit d. $\beta\gamma$ -Dioxy- $\beta\gamma$ -Dimethylbutan. Sm. 160° u. Zers. (B. 36, 1775 C. 1903 [2] 102).
- 21) Methylamid d. d-Weinsäure. Sm. 189° (Soc. 83, 1360 C. 1904 [1] 84).
- 22) Di[β -Oxyäthylamid] d. Oxalsäure. Sm. 167—168° (B. 36, 1279 C. 1903 [1] 1215).
- $C_6H_{12}O_4S$ 6) Allylacetonydrosulfonsäure. Ba + H₂O (B. 37, 4048 C. 1904 [2] 1648).
- 7) 2-Oxyhexahydrobenzol-1-Sulfonsäure. Na + H₂O (C. r. 137, 63 C. 1903 [2] 570).
- $C_6H_{12}O_6Hg_8$ 1) Verbindung (aus Propylen) (B. 36, 3705 C. 1903 [2] 1239).
- $C_6H_{12}O_6B_2$ 1) Triäthylendiborat. Sm. 100; Sd. 271—272° (B. 36, 2221 C. 1903 [2] 420).
- $C_6H_{12}NJ$ 2) Jodmethylat d. 5-Methyl-2,3-Dihydropyrrol. Sm. 260° u. Zers. (G. 33 [2] 316 C. 1904 [1] 292).
- $C_6H_{12}N_2S_8$ 1) Sulfid d. Dimethylamidodithioameisensäure. Sm. 104° (B. 36, 2280 C. 1903 [2] 560).
- $C_6H_{12}N_2S_4$ *3) Dimethyläther d. Di[Methylimidomerkaptomethyl]disulfid (B. 36, 2266 C. 1903 [2] 562).
- $C_6H_{12}ON$ *10) 1-Methylhexahydropyridin-N-Oxyd. (2HCl, PtCl₄), HJ, Pikrat (B. 37, 3233 C. 1904 [2] 1152).
- *22) ϵ -Oximido- β -Methylpentan. Sd. 103°₃₅ (Bl. [3] 29, 646 C. 1903 [2] 553).
- 26) 2-Amido-1-Oxyhexahydrobenzol. Sm. 66°; Sd. 219°. HCl, HNO₃ (C. r. 137, 199 C. 1903 [2] 665).
- 27) γ -Oximidomethylpentan. Sd. 95°₃₄ (Bl. [3] 31, 306 C. 1904 [1] 1133).
- 28) Isoamylamid d. Ameisensäure. Sd. 123,5—124° (B. 36, 2475 C. 1903 [2] 559).
- $C_6H_{12}ON_3$ *3) β -Semicarbazonpentan. Sm. 112° (Bl. [3] 27, 1083 C. 1903 [1] 225).
- $C_6H_{12}OCl$ 7) α -Chlor- β -Oxy- β -Methylpentan. Sd. 75°₂₈ (C. r. 138, 767 C. 1904 [1] 1196).
- $C_6H_{12}OBr$ 2) Brommethyläther d. α -Oxypentan. Sd. 74—76°₁₈ (C. r. 138, 814 C. 1904 [1] 1195).
- $C_6H_{12}O_2N$ *19) r-Leucin. Sm. 290° u. Zers. (H. 37, 18 C. 1903 [1] 60; C. 1903 [2] 811; B. 37, 1838 C. 1904 [1] 1645; Bl. [3] 31, 1181 C. 1904 [2] 1710).
- *25) Diäthylamidoessigsäure. Camphersaures Salz (Ar. 240, 638 C. 1903 [1] 24).
- *32) Amidoformiat d. δ -Oxy- β -Methylbutan (Isoamylester d. Amidoameisensäure). Sm. 64,5° (B. 36, 2475 C. 1903 [2] 559; B. 37, 1040 C. 1904 [1] 1248).
- *57) Äthylester d. α -Amidobuttersäure. HCl (B. 37, 1273 C. 1904 [1] 1334).
- 61) α -Oximido- α -Oxyhexan (Capronhydroxamsäure) (G. 34 [1] 432 C. 1904 [2] 511).
- 62) α -Amidocaprinsäure. Sm. 285°. Cu (B. 35, 4015 C. 1903 [1] 390).

- $C_6H_{11}O_2N$ 63) d-Isoleucin. Sm. 280° u. Zers. HCl, (2 HCl, PtCl₄), Cu, Ag (C. 1903 [2] 811; B. 37, 1823 C. 1904 [1] 1645).
- 64) Amidoformiat d. d- α -Oxy- β -Methylbutan. Sm. 61° (B. 37, 1041 C. 1904 [1] 1248).
- $C_6H_{11}O_2N_3$ 5) Aethyläther d. β -Semicarbazon- α -Oxypropan. Sm. 92° (A. 335, 240 C. 1904 [2] 1204).
- $C_6H_{11}O_3N$ 11) α -Amido- β -Oxycaprinsäure. Sm. 190—200° (B. 35, 4015 C. 1903 [1] 390).
- $C_6H_{11}O_3N_3$ 2) Methylester d. α -Semicarbazidoisobuttersäure. Sm. 106,5° (Am. 28, 402 C. 1903 [1] 90).
- $C_6H_{11}O_5N$ *4) d-Glykosamin (B. 36, 28 C. 1903 [1] 446; H. 39, 423 C. 1903 [2] 962).
- *5) Isoglykosamin (C. r. 137, 658 C. 1903 [2] 1237).
- $C_6H_{11}O_5N_3$ 2) Semicarbazon d. d-Arabinose. Sm. 190° u. Zers. (B. [3] 31, 1076 C. 1904 [2] 1492).
- 3) Semicarbazon d. d-Xylose. Sm. 202—204° u. Zers. (Bl. [3] 31, 1077 C. 1904 [2] 1492).
- $C_6H_{11}O_6N$ *1) d-Glykosaminsäure. Brucinsalz (B. 35, 4012 C. 1903 [1] 390; B. 36, 27 C. 1903 [1] 446).
- 10) Chitoseoxim. + 3 PbO (B. 35, 4021 C. 1903 [1] 391).
- 11) Tetraoxyamidocaprinsäure (H. 37, 420 C. 1903 [1] 1147).
- $C_6H_{11}NS_2$ *6) Diäthyläther d. Methylimidodimerkaptomethan (C. r. 136, 452 C. 1903 [1] 699).
- *7) Methylester d. Diäthylamidodithioameisensäure (C. r. 136, 452 C. 1903 [1] 699).
- 8) Aethylenäther d. Di[β -Merkaptoäthyl]amin (C. r. 136, 452 C. 1903 [1] 699).
- 9) Isoamylester d. Amidodithioameisensäure. Sm. 51,5° (C. 1903 [1] 962).
- $C_6H_{14}ON_2$ *7) Dipropylnitrosamin. Sd. 95—95,6°₁₈ (B. 36, 2477 C. 1903 [2] 559).
- 16) Aethylamid d. Aethylamidoessigsäure. HCl (Ar. 240, 633 C. 1903 [1] 24).
- $C_6H_{14}O_2N_2$ *7) i- α -Diamidocaprinsäure (C. 1903 [2] 35).
- 14) isom. Diamidocaprinsäure. Pikrat (B. 37, 2359 C. 1904 [2] 423).
- $C_6H_{14}O_2N_4$ *1) Arginin. Cu(NO₃)₂ + 2 H₂O, Pikrolonat (H. 37, 221 C. 1903 [1] 566; H. 43, 73 C. 1904 [2] 1610).
- $C_6H_{14}O_4S$ *6) Schwefelsäureäthylisobutylester. Sd. 108°₁₅ (Am. 30, 219 C. 1903 [2] 937).
- *7) Schwefelsäurediisopropylester (Am. 30, 222 C. 1903 [2] 937).
- $C_6H_{14}O_5N_2$ 2) β - γ -Tetraoxyamylharnstoff (Arabinaminharnstoff). Sm. 152—153° (C. r. 136, 1079 C. 1903 [1] 1305).
- $C_6H_{14}O_6S_2$ *2) Diäthylester d. Aethan- α -Disulfonsäure. Fl. (B. 37, 3808 C. 1904 [2] 1564).
- 3) Diäthylester d. Aethan- α -Disulfonsäure. Sm. 77,5° (B. 37, 3806 C. 1904 [2] 1564).
- $C_6H_{14}O_8S$ 1) Glykoseschwefligesäure. Na (C. 1904 [2] 57).
- $C_6H_{14}O_{10}P_2$ 1) Säure (aus Mannit). Ca (C. r. 137, 518 C. 1903 [2] 1053).
- $C_6H_{14}N_2S_3$ 7) α -Methyl- β -(d-sec. Butyl)thioharnstoff. Sm. 84° (Ar. 242, 59 C. 1904 [1] 998).
- $C_6H_{14}ClTi$ 1) Thalliumdipropylchlorid. Zers. bei 198—202° (B. 37, 2060 C. 1904 [2] 20).
- $C_6H_{14}JTl$ 1) Thalliumdipropyljodid. Zers. bei 183—185° (B. 37, 2060 C. 1904 [2] 20).
- $C_6H_{15}ON$ 20) α -Dimethylamido- β -Oxy- β -Methylpropan. Sd. 60°₄₈ (C. r. 138, 767 C. 1904 [1] 1196).
- 21) β -Dimethylamidodiäthyläther. Sd. 120—121°₇₅₀. (HCl, AuCl₃), Pikrat (B. 37, 3497 C. 1904 [2] 1320; B. 37, 3500, 3504 C. 1904 [2] 1320).
- $C_6H_{15}OTl$ 1) Thalliumdipropylhydroxyd. Fl. Salze siehe (B. 37, 2060 C. 1904 [2] 20).
- $C_6H_{15}O_3P$ *1) Triäthylester d. Phosphorigensäure. PtCl₂ (Z. a. Ch. 37, 398 C. 1904 [1] 157).
- $C_6H_{15}O_3B$ *1) Triäthylester d. Borsäure. Sd. 119° (B. 36, 2221 C. 1903 [2] 420).
- $C_6H_{15}O_4P$ *3) Di[α -Oxyisopropyl]unterphosphorigensäure. Sm. 185° u. Zers. (C. 1904 [2] 1708).

- $C_6H_{15}O_5N$ *2) Glukamin (*C.* 1904 [1] 431).
 *3) Galaktamin (*C.* 1904 [1] 431).
 4) d-Glykamin (*C. r.* 137, 659 *C.* 1903 [2] 1238).
 5) isom. d- α -Amido- $\alpha\beta\gamma\delta\epsilon$ -Pentaoxyhexan (d-Mannamin). Sm. 139°. (2HCl, PtCl₄, H₂SO₄, Oxalat (*C. r.* 137, 659 *C.* 1903 [2] 1238; *C. r.* 138, 504 *C.* 1904 [1] 871).
- $C_6H_{15}ClS$ *1) Triäthylsulfinchlorid (*J. pr.* [2] 66, 455 *C.* 1903 [1] 561).
 *2) Methyläthylpropylsulfinchlorid. + 2(6)HgCl₂, 2 + PtCl₄ (*J. pr.* [2] 66, 456 *C.* 1903 [1] 561; *J. pr.* [2] 66, 527 *C.* 1903 [1] 561).
 *3) Methyläthylisopropylsulfinchlorid. + 2(6)HgCl₂, 2 + PtCl₄ (*J. pr.* [2] 66, 526 *C.* 1903 [1] 561; *J. pr.* [2] 66, 456 *C.* 1903 [1] 561).
- $C_6H_{15}ClPb$ *1) Bleitriäthylechlorid (*B.* 37, 1127 *C.* 1904 [1] 1257).
 $C_6H_{15}ClSi$ *1) Siliciumtriäthylechlorid (Silicoheptylechlorid) (*C.* 1904 [1] 636).
- $C_6O_2ClBr_3$ *1) 6-Chlor-2,3,5-Tribrom-1,4-Benzochinon. Sm. 302—303° (*C.* 1903 [2] 550).
- $C_6O_4N_2Cl_4$ 1) 1,2,3,5-Tetrachlor-4,6-Dinitrobenzol. Sm. 161—162° (*B.* 35, 3855 *C.* 1903 [1] 21; *Am.* 31, 365 *C.* 1904 [1] 1407).
- $C_6O_6N_3Cl_3$ *1) 1,3,5-Trichlor-2,4,6-Trinitrobenzol. Sm. 187° (*Am.* 31, 365 *C.* 1904 [1] 1407; *Am.* 32, 171 *C.* 1904 [2] 950).
- $C_6O_6Cl_3B$ 1) Gem. Anhydrid d. Borsäure u. Trichloressigsäure. Sm. 165° (*B.* 36, 2223 *C.* 1903 [2] 420).
- 6 IV —
- $C_6HON_2Br_3$ 1) 4,5,6-Tribrom-2-Oxy-1-Diazobenzolanhydrid. Zers. bei 124° (*Soc.* 83, 811 *C.* 1903 [2] 195, 426).
- $C_6HO_3N_3Br_2$ 1) 2,6-Dibrom-3-Nitro-4-Oxy-1-Diazobenzolanhydrid. Zers. bei 196° (*Soc.* 83, 810 *C.* 1903 [2] 195, 426).
- $C_6HO_4N_2Br_3$ *3) 3,4,5-Tribrom-1,2-Dinitrobenzol. Sm. 160° (*Am.* 30, 68 *C.* 1903 [2] 355).
- $C_6HO_4N_3J_3$ *1) 1,3,5-Trinitro-2,4-Dinitrobenzol (*Am.* 32, 300 *C.* 1904 [2] 1385).
 $C_6H_2ON_2Cl_2$ 3) 4,6-Dichlor-2-Oxy-1-Diazobenzolanhydrid. Sm. 83—84°. HCl (*C.* 1903 [1] 394).
- $C_6H_2ON_2Br_2$ *1) 3,5-Dibrom-2-Oxy-1-Diazobenzolanhydrid. Sm. 140° u. Zers. (*Soc.* 83, 803 *C.* 1903 [2] 425).
 5) 4,6-Dibrom-2-Oxy-1-Diazobenzolanhydrid. Zers. bei 140° (*C.* 1903 [1] 394).
- $C_6H_2ON_2Br_4$ 1) 2,3,4,6-Tetrabromdiazobenzol. Sulfat (*Soc.* 83, 810 *C.* 1903 [2] 426).
- $C_6H_2O_2NCl_3$ 5) 2,3,5-Trichlorpyridin-4-Carbonsäure. Sm. 188—189° (*Soc.* 83, 400 *C.* 1903 [1] 841, 1141).
- $C_6H_2O_2NBr_3$ *5) 3,4,5-Tribrom-1-Nitrobenzol. Sm. 112° (*Am.* 30, 58 *C.* 1903 [2] 354).
- $C_6H_2O_2NJ_3$ 2) 2,4,5-Trijod-1-Nitrobenzol. Sm. 124° (*C. r.* 137, 1065 *C.* 1904 [1] 266).
- $C_6H_2O_2ClBr_3$ *1) 2-Chlor-3,5,6-Tribrom-1,4-Dioxybenzol. Sm. 239° (*C.* 1903 [2] 550).
- $C_6H_2O_3NBr_3$ 3) 4,5,6-Tribrom-2-Nitro-1-Oxybenzol. Sm. 120—121°. Ag (*Am.* 30, 72 *C.* 1903 [2] 355).
- $C_6H_2O_3N_3Br_3$ 1) 2,4,6-Tribrom-3-Nitrodiazobenzol. Sulfat (*Soc.* 83, 809 *C.* 1903 [2] 426).
- $C_6H_2O_4N_2Cl_2$ 4) 3,4-Dichlor-1,2-Dinitrobenzol. Sm. 55° (*B.* 37, 3892 *C.* 1904 [2] 1611).
 5) 4,5-Dichlor-1,2-Dinitrobenzol. Sm. 110° (114°) (*R.* 21, 419 *C.* 1903 [1] 503; *Soc.* 85, 867 *C.* 1904 [2] 518; *B.* 37, 3892 *C.* 1904 [2] 1611).
- $C_6H_2O_4N_2Br_2$ 7) 2,5-Dibrom-1,4-Dinitrobenzol. Sm. 127° (*Am.* 28, 456 *C.* 1903 [1] 322).
- $C_6H_2O_4N_3J_2$ *1) 2,4- oder 4,6]-Dijod-1,3-Dinitrobenzol. Sm. 160° (*Am.* 32, 304 *C.* 1904 [2] 1385).
 2) 1,3-Dijod- β -Dinitrobenzol. Sm. 168,4° (*J.* 1875, 325; 1880, 478; *C. r.* 139, 64 *C.* 1904 [2] 590). — II, 90.
- $C_6H_2O_6N_3Cl$ 2) 5-Chlor-1,2,4-Trinitrobenzol. Sm. 116° (*B.* 36, 3953 *C.* 1904 [1] 363).

- C₆H₂O₆N₃Br** 1) 1-Brom-2,4,6-Trinitrobenzol. Sm. 122–123° (*Am.* 29, 212 *C.* 1903 [1] 964).
- C₆H₂N₂ClJ₃** 1) 2,4,6-Trijod-1-Diazobenzolchlorid. Zers. oberh. 120° (*B.* 36, 2070 *C.* 1903 [2] 358).
- C₆H₂N₂Br₃F** 1) 2,4,6-Tribromdiazobenzolfluorid. HF + 2H₂O (*B.* 36, 2060 *C.* 1903 [2] 357).
- C₆H₃ON₂Cl₃** 1) 2,4,6-Trichlordiazobenzol. K, Nitrat, Sulfat (*C.* 1903 [1] 394; *Soc.* 83, 807 *C.* 1903 [2] 426).
- C₆H₃ON₂Br** 1) 6-Brom-2-Oxy-1-Diazobenzolanhydrid. Sm. 103° u. Zers. (*Soc.* 83, 812 *C.* 1903 [2] 426).
- C₆H₃ON₂Br₃** *4) 2,4,6-Tribrom-1-Nitrosamidobenzol. Sm. 85° (*C.* 1903 [1] 394; *B.* 36, 2072 *C.* 1903 [2] 358).
- C₆H₃O₂NCl₂** *1) 2,4-Dichlor-1-Nitrobenzol. Sm. 33° (*Soc.* 85, 868 *C.* 1904 [2] 518).
- *2) 2,5-Dichlor-1-Nitrobenzol. Sm. 54° (*Soc.* 85, 868 *C.* 1904 [2] 518).
- *3) 3,4-Dichlor-1-Nitrobenzol. Sm. 43° (*Soc.* 85, 867 *C.* 1904 [2] 518).
- 11) 5,6-Dichlorpyridin-3-Carbonsäure + H₂O. Sm. 162–163° wasserfrei (*B.* 37, 3832 *C.* 1904 [2] 1614).
- C₆H₃O₂NJ₂** *1) 3,4-Dijod-1-Nitrobenzol. Sm. 112,5° (*C. r.* 136, 1077 *C.* 1903 [1] 1339).
- *5) 3,5-Dijod-1-Nitrobenzol. Sm. 103° (*C. r.* 136, 236 *C.* 1903 [1] 574).
- 6) 2,4-Dijod-1-Nitrobenzol. Sm. 101° (*C. r.* 139, 63 *C.* 1904 [2] 590).
- 7) 2,6-Dijod-1-Nitrobenzol. Sm. 114° (*C. r.* 138, 1505 *C.* 1904 [2] 319; *Bl.* [3] 31, 974 *C.* 1904 [2] 1114).
- C₆H₃O₂N₂Br₃** *2) 4,5,6-Tribrom-2-Nitro-1-Amidobenzol. Sm. 166° (*R.* 21, 414 *C.* 1903 [1] 505; *Am.* 30, 74 *C.* 1903 [2] 355).
- C₆H₃O₂NBr₂** *1) 4,6-Dibrom-2-Nitro-1-Oxybenzol. Sm. 117,5° (*A.* 333, 363 *C.* 1904 [2] 1117; *C.* 1904 [2] 1697).
- 7) 3,6-Dibrom-2-Nitro-1-Oxybenzol. Sm. 77°. Ba (*Am.* 28, 473 *C.* 1903 [1] 323).
- C₆H₃O₂N₃Br₂** 1) 4,6-Dibrom-3-Nitrodiazobenzol. Sulfat (*Soc.* 83, 814 *C.* 1903 [2] 426).
- 3) 2,6-Dibrom-4-Nitro-1,3-Dioxybenzol. Sm. 148–149° (*A.* 333, 360 *C.* 1904 [2] 1116).
- C₆H₃O₂N₂Br** *2) 2-Brom-4,6-Dinitro-1,3-Dioxybenzol. Sm. 191–192° (*A.* 333, 362 *C.* 1904 [2] 1116).
- C₆H₃O₂N₃S** 2) 3-Nitro-2-Oxydiazolbenzol-5-Sulfonsäure (D.R.P. 141750 *C.* 1903 [1] 1324).
- C₆H₄ONCl** *2) 1,4-Benzochinonchlorimid (*B.* 36, 2980 *C.* 1903 [2] 980).
- C₆H₄O₂NCl** *1) 2-Chlor-1-Nitrobenzol (D.R.P. 137847 *C.* 1903 [1] 208).
- *3) 4-Chlor-1-Nitrobenzol (D.R.P. 137847 *C.* 1903 [1] 208).
- 11) 5-Chlorpyridin-3-Carbonsäure. Sm. 170–171° (*B.* 37, 3834 *C.* 1904 [2] 1614).
- C₆H₄O₂NBr₃** 2) 3,4,5-Tribrom-1-Methylpyrrol-2-Carbonsäure (*B.* 37, 2802 *C.* 1904 [2] 533).
- C₆H₄O₂NJ** *1) 2-Jod-1-Nitrobenzol. Sm. 49° (*C.* 1903 [2] 1109).
- *3) 4-Jod-1-Nitrobenzol. Sm. 171–177° (*C.* 1903 [2] 1109).
- C₆H₄O₂N₂Cl₂** *3) 4,5-Dichlor-2-Nitro-1-Amidobenzol. Sm. 176° (*R.* 21, 420 *C.* 1903 [1] 503; *B.* 37, 3893 *C.* 1904 [2] 1611).
- *4) 4,6-Dichlor-2-Nitro-1-Amidobenzol. Sm. 100° (*A.* 330, 17, 27 *C.* 1904 [1] 1140).
- C₆H₄O₂N₂Br₂** *2) 4,5-Dibrom-2-Nitro-1-Amidobenzol. Sm. 204° (*R.* 21, 414 *C.* 1903 [1] 505).
- *4) 2,6-Dibrom-4-Nitro-1-Amidobenzol. Sm. 204° (*A.* 330, 45 *C.* 1904 [1] 1141).
- 8) 2,5-Dibrom-4-Nitro-1-Amidobenzol. Sm. 174–175° (*Am.* 28, 463 *C.* 1903 [1] 323).
- C₆H₄O₂N₂J₂** *1) 2,4-Dijod-3-Nitro-1-Amidobenzol. Sm. 125° (*C. r.* 138, 1504 *C.* 1904 [2] 319; *Bl.* [3] 31, 973 *C.* 1904 [2] 1114).
- 4) 2,6-Dijod-3-Nitro-1-Amidobenzol. Sm. 149° (*C. r.* 138, 1504 *C.* 1904 [2] 319; *C. r.* 139, 63 *C.* 1904 [2] 590).
- C₆H₄O₂N₂F** 1) 4-Nitrodiazobenzolfluorid. 2HF + H₂O (*B.* 36, 2061 *C.* 1903 [2] 357).

- $C_6H_4O_3NCl$ 13) 5-Chlor-6-Oxypyridin-3-Carbonsäure. Sm. 308° u. Zers. (B. 37, 3832 C. 1904 [2] 1614).
- $C_6H_4O_3NBr$ *1) 4-Brom-2-Nitro-1-Oxybenzol. Sm. 89—90° (A. 333, 353 C. 1904 [2] 1116).
- $C_6H_4O_3N_2S$ *6) 1-Diazobenzol-4-Sulfonsäure (A. 330, 14 C. 1904 [1] 1138).
- $C_6H_4O_3Br_2S$ *5) 3,5-Dibrombenzol-1-Sulfonsäure (Am. 29, 223 C. 1903 [1] 963).
- $C_6H_4O_4N_2S$ 4) Inn. Anhydrid d. 4-Oxy-1-Diazobenzol-2-Sulfonsäure (J. pr. [2] 69, 339 C. 1904 [2] 37).
- $C_6H_4O_4Br_2S_2$ 1) Bromid d. Benzol-1,3-Disulfinsäure. Sm. 52° (J. pr. [2] 68, 318 C. 1903 [2] 1170).
- $C_6H_4O_4J_2S$ *1) 2,6-Dijod-1-Oxybenzol-4-Sulfonsäure. (NH₄, HF), (K, HF), (Rb, HF) (A. 328, 147 C. 1903 [2] 992).
- $C_6H_4O_5NBr$ 2) 5-[oder 6]-Brom-4-Nitro-1,2,3-Trioxybenzol. Sm. 122° (B. 37, 116 C. 1904 [1] 585).
- $C_6H_4O_7N_2S$ *2) 1,3-Dinitrobenzol-5-Sulfonsäure. Ba + 3H₂O (Am. 29, 218 C. 1903 [1] 963).
- $C_6H_4NClBr_2$ *2) 4-Chlor-2,6-Dibrom-1-Amidobenzol. Sm. 95° (A. 333, 338 C. 1904 [2] 1151).
- $C_6H_4N_2BrF$ 1) 4-Bromdiazobenzolfluorid (B. 36, 2060 C. 1903 [2] 357).
- $C_6H_4BrJF_2$ 1) 4-Brombenzol-1-Jodidfluorid. Sm. 110° (A. 328, 139 C. 1903 [2] 990).
- $C_6H_5OJF_2$ *1) Benzoljodfluorid. Zers. bei 216° (A. 328, 135 C. 1903 [2] 990).
- $C_6H_5O_2NBr_2$ 2) 6-Dibrom-4-Amido-1,3-Dioxybenzol. HCl (A. 333, 361 C. 1904 [2] 1116).
- 4) 3,4-Dibrom-1-Methylpyrrol-2-Carbonsäure (B. 37, 2801 C. 1904 [2] 533).
- $C_6H_5O_2NS$ *1) 4-Nitro-1-Merkaptobenzol. Sm. 78° (J. pr. [2] 66, 553 C. 1903 [1] 508).
- $C_6H_5O_2N_2Cl$ *3) 5-Chlor-2-Nitro-1-Amidobenzol. Sm. 115° (B. 36, 4027 C. 1904 [1] 294).
- $C_6H_5O_2N_2Br$ *3) 5-Brom-2-Nitro-1-Amidobenzol (R. 21, 413 C. 1903 [1] 505).
- $C_6H_5O_2N_2J$ 5) 6-Jod-3-Nitro-1-Amidobenzol. Sm. 160,5° (C. r. 138, 1503 C. 1904 [2] 319).
- $C_6H_5O_2N_3Br_2$ 1) 2,6-Dibrom-4-Nitro-1,3-Diamidobenzol. Sm. 189—190° (Am. 30, 76 C. 1903 [2] 355).
- $C_6H_5O_3BrS_2$ 1) 4-Brombenzol-1-Thiosulfonsäure. Na, p-Phenylendiaminsalz (J. pr. [2] 70, 391 C. 1904 [2] 1721).
- $C_6H_5O_3JS_2$ *1) 4-Jodbenzol-1-Thiosulfonsäure. p-Phenylendiaminsalz (J. pr. [2] 70, 392 C. 1904 [2] 1721).
- $C_6H_5O_3N_2Cl$ 2) 4-Chlor-6-Nitro-2-Amido-1-Oxybenzol. Sm. 152° (D.R.P. 147060 C. 1904 [1] 233).
- 3) 6-Chlor-2-Nitro-4-Amido-1-Oxybenzol. Sm. 130° (D.R.P. 147060 C. 1904 [1] 233).
- $C_6H_5O_3N_2Br$ 3) 3-Brom-1-Amido-2-Keto-1,2-Dihydropyridin-5-Carbonsäure. Sm. 238° (B. 37, 3839 C. 1904 [2] 1615).
- $C_6H_5O_5NS$ *1) 2-Nitrobenzol-1-Sulfonsäure. K (J. pr. [2] 66, 554 C. 1903 [1] 508).
- *2) 3-Nitrobenzol-1-Sulfonsäure (J. pr. [2] 66, 559 C. 1903 [1] 518).
- *3) 4-Nitrobenzol-1-Sulfonsäure. K + H₂O (J. pr. [2] 66, 553 C. 1903 [1] 508).
- $C_6H_5O_6N_3S$ *1) Amid d. 1,3-Dinitrobenzol-5-Sulfonsäure. Sm. 234—235° (Am. 29, 220 C. 1903 [1] 963).
- $C_6H_5O_{10}NS_2$ 2) 2-Nitro-1,3-Dioxybenzol-4,6-Disulfonsäure. K₂ (B. 37, 726 C. 1904 [1] 1005).
- C_6H_5ONCl 4) 3-Chlor-4-Amido-1-Oxybenzol (D.R.P. 143449 C. 1903 [2] 320).
- C_6H_5ONBr 2) 3[oder 4]-Brom-1-Methylpyrrol-2-Carbonsäure (B. 37, 2802 C. 1904 [2] 533).
- $C_6H_5O_2N_2Br_2$ 2) Dilaktam d. $\alpha\delta$ -Dibrom- $\beta\gamma$ -Diamidobutan- $\alpha\delta$ -Dicarbonsäure (B. 35, 4126 C. 1903 [1] 136).
- $C_6H_5O_3N_2S$ 3) p-Acetylamidothiazol-p-Carbonsäure. Sm. 166° (B. 36, 3549 C. 1903 [2] 1379).
- $C_6H_5O_5N_2S$ 8) 1-Nitramidobenzol-4-Sulfonsäure. Na + H₂O, Na₂, BaH, Ba, Ag (A. 330, 29 C. 1904 [1] 1141).

- $C_6H_6O_6N_4S$ 1) 2,6-Di[*Diaz*o]-1-Oxybenzol-4-Sulfonsäure (D. R. P. 148085 *C.* 1904 [1] 135).
- $C_6H_6N_2Cl_2S$ 1) Methyläther d. 4,6-Dichlor-2-Merkapto-5-Methyl-1,3-Diazin. Sm. 64°; Sd. 153—154°₁₈ (*Am.* 32, 353 *C.* 1904 [2] 1414).
- $C_6H_7ONS_2$ 1) 2-Thiocarbonyl-4-Keto-3-Allyltetrahydrothiazol. Fl. (*M.* 24, 504 *C.* 1903 [2] 836).
- $C_6H_7O_2NS$ *6) Amid d. Benzolsulfonsäure. Sm. 151°. H_2SO_4 (*B.* 37, 692 *C.* 1904 [1] 1074).
- $C_6H_7O_2N_2Cl$ 3) Dimethyläther d. 6-Chlor-2,4-Dioxy-1,3-Diazin. Sm. 73° (*B.* 36, 2234 *C.* 1903 [2] 449; *B.* 36, 3379 *C.* 1903 [2] 1192).
- $C_6H_7O_2N_3S$ 1) Amid d. *p*-Acetylamidothiazol-*p*-Carbonsäure. Zers. oberh. 250° (*B.* 36, 3549 *C.* 1903 [2] 1379).
- $C_6H_7O_6NS$ *4) Phenylsulfaminsäure. Sm. noch nicht bei 280° (D. R. P. 151134 *C.* 1904 [1] 1381; *A.* 333, 288 *C.* 1904 [2] 904).
- $C_6H_7O_4NS$ 9) 4-Amido-1-Oxybenzol-3-Sulfonsäure + H_2O . K, Ba (D. R. P. 150982 *C.* 1904 [1] 1235; D. R. P. 153123 *C.* 1904 [2] 574; *J. pr.* [2] 69, 336 *C.* 1904 [2] 36).
- $C_6H_7O_6NS$ 2) 4-Amid d. 2-Methylfuran-5-Carbonsäure-4-Sulfonsäure. Sm. 217—218°. K + H_2O , Ba + $3H_2O$, Pb, Ag (*Am.* 32, 193 *C.* 1904 [2] 1139).
- $C_6H_7N_2ClS$ 1) Äthyläther d. 4-Chlor-2-Merkapto-1,3-Diazin. Sd. 135°₂₄ (*Am.* 29, 496 *C.* 1903 [1] 1310; *Am.* 31, 596 *C.* 1904 [2] 243).
- $C_6H_8ON_2S$ *4) Methyläther d. 2-Merkapto-4-Keto-6-Methyl-3,4-Dihydro-1,3-Diazin. Sm. 219° (*Am.* 29, 486 *C.* 1903 [1] 1309).
- 5) Methyläther d. 2-Merkapto-4-Keto-5-Methyl-3,4-Dihydro-1,3-Diazin. Sm. 233° (*Am.* 29, 487 *C.* 1903 [1] 1309).
- 6) Äthyläther d. 2-Merkapto-4-Keto-3,4-Dihydro-1,3-Diazin. Sm. 152° (*Am.* 29, 484 *C.* 1903 [1] 1309).
- 7) 2-Thiocarbonyl-4-Keto-3,6-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 271—273° (*A.* 329, 348 *C.* 1904 [1] 435).
- $C_6H_8O_3N_2S$ 8) Methyläther d. 2-Merkapto-4,6-Diketo-5-Methyl-3,4,5,6-Tetrahydro-1,3-Diazin. Zers. bei 303° (*Am.* 32, 353 *C.* 1904 [2] 1414).
- 9) 2-Thiocarbonyl-4,6-Diketo-5-Äthylhexahydro-1,3-Diazin + xH_2O . Sm. 190—191° (wasserfrei) (*Am.* 32, 352 *C.* 1904 [2] 1414).
- 10) Äthylester d. 5-Methyl-1,2,3-Thiodiazol-4-Carbonsäure. Sm. 35° (*A.* 325, 177 *C.* 1903 [1] 646; *A.* 333, 6 *C.* 1904 [2] 780).
- $C_6H_8O_3N_3S$ *2) 1,2-Diamidobenzol-4-Sulfonsäure (*A.* 330, 23 *C.* 1904 [1] 1139).
- *6) 1,4-Diamidobenzol-2-Sulfonsäure + $2H_2O$ (*B.* 37, 2912 *C.* 1904 [2] 1458).
- $C_6H_8O_3N_2Se$ 1) Äthylester d. Selencyanacetylamidoameisensäure. Fl. (*Ar.* 241, 199 *C.* 1903 [2] 103).
- $C_6H_8O_4N_2S$ 4) 2,6-Diamido-1-Oxybenzol-4-Sulfonsäure (D. R. P. 147880 *C.* 1904 [1] 135; D. R. P. 148212 *C.* 1904 [1] 487).
- 5) Diamid d. 2-Methylfuran-5-Carbonsäure-4-Sulfonsäure. Sm. 196—197° (*Am.* 32, 190 *C.* 1904 [2] 1138).
- $C_6H_8O_6N_2S_2$ 7) Di[Hydroxylamid] d. Benzol-1,3-Disulfonsäure (1,3-Benzoldisulfhydroxamsäure). Sm. 152°. + $\frac{1}{2}C_6H_6$ (*G.* 33 [2] 309 *C.* 1904 [1] 288).
- $C_6H_8O_6N_2S_4$ *1) 1,4-Diamidobenzol-2,5-Di[Thiosulfonsäure] + $2H_2O$. K₂ + $2H_2O$ (*Soc.* 83, 1204 *C.* 1903 [2] 1328).
- $C_6H_8O_{12}N_2S_8$ *1) 1,4-Diamidobenzol-2,3,5,6-Tetra[Thiosulfonsäure]. K₁ (*Soc.* 83, 1210 *C.* 1903 [2] 1328).
- $C_6H_8N_3BrS$ 1) Äthyläther d. 5-Brom-4-Amido-2-Merkapto-1,3-Diazin. Sm. 123—124° (*Am.* 31, 604 *C.* 1904 [2] 243).
- $C_6H_8ON_3S$ 1) 4-(α -Semicarbazonyl)-5-Methyl-1,2,3-Thiodiazol. Sm. 230° (*A.* 325, 176 *C.* 1903 [1] 646).
- $C_6H_8O_4N_4Cl$ 1) Chloracetylamidoacetylamidoessigsäure. Sm. 178—180° (*B.* 36, 2114 *C.* 1903 [2] 346; *B.* 37, 2500 *C.* 1904 [2] 426).
- $C_6H_{10}OClBr$ 1) Chlorid d. α -Bromisocaproensäure. Sd. 68—71°₁₁₋₁₂ (*B.* 36, 2989 *Ann.* *C.* 1903 [2] 1112; *B.* 37, 2492 *Ann.* *C.* 1904 [2] 425).
- $C_6H_{10}O_2NCl$ *5) Äthylester d. β -Chloramidocrotonsäure (*A.* 329, 367 *C.* 1904 [1] 436).
- $C_6H_{10}O_3NBr_3$ 1) Äthylester d. $\alpha\alpha\beta$ -Tribrom- β -Amidobuttersäure (*C.* 1904 [1] 1067).

- $C_6H_{10}O_3Cl_4Hg_4$ 1) Verbindung (aus d. Verb. $C_{14}H_{22}O_{11}Hg_4$) (B. 36, 3703 C. 1903 [2] 1239).
- $C_6H_{11}ONJ_2$ 1) Amid d. $\alpha\alpha$ -Dijodpentan- α -Carbonsäure (B. 37, 1275 C. 1904 [1] 1334).
- $C_6H_{11}O_2NBr_2$ 1) Aethyl ester d. $\alpha\beta$ -Dibrom- β -Amidobuttersäure. Fl. (C. 1904 [1] 1067).
- $C_6H_{11}O_4NS$ 1) 2-Merkapto-5-[$\alpha\beta\gamma$ -Trioxypropyl]-4,5-Dihydrooxazol(Merkapto-arabinoxazolin). Sm. 172,5° (C. r. 136, 1081 C. 1903 [1] 1305).
- $C_6H_{11}NBr_2S$ 1) $\beta\gamma$ -Dibrompropylamid d. Thiopropionsäure. Sm. 179° (B. 37, 877 C. 1904 [1] 1004).
- $C_6H_{12}ONBr$ 2) γ -Brom- β -Nitro- $\beta\gamma$ -Dimethylbutan (B. 37, 546 C. 1904 [1] 865).
3) Methyläther d. β -Brom- γ -Oximido- β -Methylbutan. Fl. (B. 37, 540 C. 1904 [1] 865).
4) Amid d. γ -Brompentan- γ -Carbonsäure. Sm. 66—67° (C. 1904 [2] 1666).
- $C_6H_{12}ON_2S$ 2) Amid d. α -Acetylamidothioisobuttersäure. Sm. 162° (B. 37, 1923 C. 1904 [2] 196).
- $C_6H_{12}OJ_2Hg_2$ 1) Diisopropyläther- $\beta\beta$ -Diquecksilberjodid (B. 36, 3705 C. 1903 [2] 1239).
- $C_6H_{12}O_4N_2S_2$ *1) Di[β -Aminoäthyl]disulfid- $\beta\beta$ -Dicarbonsäure (Cystin) (B. 36, 2720 C. 1903 [2] 827; H. 38, 557 C. 1903 [2] 389; H. 39, 350 C. 1903 [2] 792).
- $C_6H_{12}N_4Cl_4J_2$ 1) Hexamethylenamindichlorojodid (C. r. 136, 1472 C. 1903 [2] 297).
- $C_6H_{13}O_2ClS$ *1) Diäthylthetinchlorid. + 6 HgCl₂ (J. pr. [2] 66, 465 C. 1903 [1] 561).
- $C_6H_{14}NCl_2P$ 1) Dipropylamidodichlorphosphin. Sd. 220—223° (A. 326, 155 C. 1903 [1] 761).
- $C_6H_{14}NCl_4P$ 1) Dipropylamidophosphortetrachlorid. + PCl₅ (A. 326, 159 C. 1903 [1] 761).
- $C_6H_{16}ONCl$ 5) Aethyläther d. Oxytetramethylammoniumchlorid. 2 + PtCl₄, + AuCl₃ (A. 334, 63 C. 1904 [2] 949).
- $C_6H_{16}O_2NCl$ 3) Dimethyläther d. $\alpha\alpha'$ -Dioxytetramethylammoniumchlorid. 2 + PtCl₄, + AuCl₃ (A. 334, 57 C. 1904 [2] 949).
- $C_6H_{16}O_3NP$ 1) Dimethylmonamid d. Phosphorsäurediäthylester. Sd. 85 bis 90° (A. 326, 180 C. 1903 [1] 819).
- $C_6H_{18}N_3SP$ 1) Tri[Aethylamid] d. Thiophosphorsäure. Sm. 68° (A. 326, 206 C. 1903 [1] 821).
- $C_6O_4N_2ClBr_3$ 1) 5-Chlor-2,4,6-Tribrom-1,3-Dinitrobenzol. Sm. 208° (Am. 31, 375 C. 1904 [1] 1408).

- $C_6HO_2NClBr_3$ 1) 3-Chlor-2,4,6-Tribrom-1-Nitrobenzol. Sm. 149—150° (A. 330, 26 C. 1904 [1] 1140).
- $C_6H_2O_3N_2Br_2S$ 3) 2,6-Dibrom-1-Diazobenzol-4-Sulfonsäure (A. 330, 37 C. 1904 [1] 1141).
- $C_6H_5ONCl_2P$ 1) 2,4,6-Trichlorphenylmonamid d. Phosphorsäuredichlorid. Sm. 128° (A. 326, 230 C. 1903 [1] 867).
- $C_6H_5O_3NClBr$ *2) 6-Chlor-4-Brom-2-Nitro-1-Oxybenzol. Sm. 112° (C. 1904 [2] 1697).
- $C_6H_5O_3NBrJ$ *1) 4-Brom-6-Jod-2-Nitro-1-Oxybenzol. Sm. 104,2° (C. 1904 [2] 1697).
- $C_6H_5O_3N_2ClS$ *1) Chlorid d. 1,3-Dinitrobenzol-5-Sulfonsäure. Sm. 98—99° (Am. 29, 220 C. 1903 [1] 963).
- $C_6H_4ONCl_4P$ 1) 2,4-Dichlorphenylmonamid d. Phosphorsäuredichlorid. Sm. 126° (A. 326, 228 C. 1903 [1] 867).
- $C_6H_4OBrJF_2$ 1) 4-Brombenzol-1-Jodofluorid. Zers. bei 225° (A. 328, 137 C. 1903 [2] 990).
- $C_6H_4O_3NCl_2S$ 1) 2,5,6-Trichlor-1-Amidobenzol-3-Sulfonsäure (D.R.P. 139327 C. 1903 [1] 747).
- $C_6H_4O_4N_2Cl_2S$ 1) Dichloramid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 121° (C. 1904 [2] 435).
- $C_6H_4O_4N_2Cl_2S_2$ 1) Di[Dichloramid] d. Benzol-1,3-Disulfonsäure. Sm. 128° (C. 1904 [2] 435).

- $C_6H_4O_5N_2Cl_2S$ 1) 3,6-Dichlor-2-Oxydiazobenzol-5-Sulfonsäure (D.R.P. 139327 C. 1903 [1] 747).
- $C_6H_4O_5N_2Br_2S$ 1) 2,6-Dibrom-1-Nitrobenzol-4-Sulfonsäure. Na + H_2O , Na₂, Ca, Ba + $2\frac{1}{2}H_2O$ (A. 330, 42 C. 1904 [1] 1141).
- $C_6H_5O_2NCl_2S$ *1) Dichloramid d. Benzolsulfonsäure. Sm. 76° (C. 1904 [2] 435).
- $C_6H_5O_3NCl_2S$ 2) 4,6-Dichlor-1-Amidobenzol-3-Sulfonsäure (A. 330, 55 C. 1904 [1] 1142).
- $C_6H_5O_3NBr_2S$ *4) 4,6-Dibrom-1-Amidobenzol-3-Sulfonsäure (A. 330, 57 C. 1904 [1] 1142).
- $C_6H_5O_3N_2Cl_2P$ 1) 3-Nitrophenylmonamid d. Phosphorsäuredichlorid. Sm. 94° (A. 326, 237 C. 1903 [1] 867).
- 2) 4-Nitrophenylmonamid d. Phosphorsäuredichlorid. Sm. 156° (A. 326, 237 C. 1903 [1] 867).
- $C_6H_5O_3N_2ClS$ 2) 2-Chlor-3-Nitro-1-Amidobenzol-5-Sulfonsäure (D.R.P. 141538 C. 1903 [1] 1381; D.R.P. 141750 C. 1903 [1] 1324).
- $C_6H_6ONClH_2Hg$ 1) Verbindung (aus Quecksilberacetamid u. salzs. Anilin) (M. 23, 1157 C. 1903 [1] 385).
- $C_6H_6ONCl_2P$ *1) Phenylamid d. Phosphorsäuredichlorid. Sm. 84° (A. 326, 223 C. 1903 [1] 866).
- $C_6H_6O_3NCl_2P$ 1) 2,4-Dichlorphenylmonamid d. Phosphorsäure. Sm. 167°. Cu (A. 326, 228 C. 1903 [1] 867).
- $C_6H_6O_3NBr_2P$ 1) 2,4-Dibromphenylmonamid d. Phosphorsäure. Cu (A. 326, 235 C. 1903 [1] 867).
- $C_6H_6O_3NClS$ 4) 4-Chlor-2-Amido-1-Oxybenzol-3-Sulfonsäure (D.R.P. 144618 C. 1903 [2] 974).
- $C_6H_6N_2ClBrS$ 1) Aethyläther d. 4-Chlor-5-Brom-2-Merkapto-1,3-Diazin. Sm. 27° (Am. 31, 603 C. 1904 [2] 243).
- $C_6H_7ON_2BrS$ 1) Aethyläther d. 5-Brom-2-Merkapto-4-Keto-3,4-Dihydro-1,3-Diazin. Sm. 189° (Am. 31, 603 C. 1904 [2] 243).
- $C_6H_7O_3NBrP$ 1) 4-Bromphenylmonamid d. Phosphorsäure. Sm. 158° (A. 326, 231 C. 1903 [1] 867).
- $C_6H_7O_3N_2ClS$ 1) 2-Chlor-1,3-Diamidobenzol-5-Sulfonsäure + H_2O (D.R.P. 150373 C. 1904 [1] 1044).
- $C_6H_{10}ONJH_2Hg$ 1) 3-Methyl-4,5-Dihydro-1,2-Oxazin[6]-6-Methylquecksilberjodid. Sm. 122° (A. 329, 180 C. 1903 [2] 1413).
- $C_6H_{12}OBr_2Hg_2$ 1) Diisopropyläther- $\beta\beta'$ -Diquecksilberbromid (B. 36, 3705 C. 1903 [2] 1239).
- $C_6H_{14}ONCl_2P$ *1) Dipropylmonamid d. Phosphorsäuredichlorid. Sd. 243—244° (A. 326, 184 C. 1903 [1] 820).
- $C_6H_{14}NCl_2SP$ *1) Dipropylmonamid d. Thiophosphorsäuredichlorid. Sd. 240—245° u. Zers. (A. 326, 212 C. 1903 [1] 822).
- $C_6H_{15}ONClP$ 1) Diäthylmonamid d. Aethylphosphinsäuremonochlorid. Sd. 90 bis 92°₁₈ (A. 326, 155 C. 1903 [1] 761).
- $C_6H_{15}O_2NClP$ 1) Diäthylmonamid d. Aethylphosphorsäuremonochlorid. Sd. 113°₁₈ (A. 326, 189 C. 1903 [1] 820).
- $C_6H_{16}ON_2ClP$ 1) Di[Propylamid] d. Phosphorsäuremonochlorid. Sm. 88° (A. 326, 176 C. 1903 [1] 819).
- $C_6H_{16}O_2NSP$ 1) Dimethylmonamid d. Thiophosphorsäurediäthylester. Sd. 107°₄₅ (A. 326, 210 C. 1903 [1] 822).
- 2) Aethylmonamid d. Thiophosphorsäurediäthylester. Sd. 94°₁₂ (A. 326, 203 C. 1903 [1] 821).
- 6 VI —
- $C_6H_3ONCl_2Br_2P$ 1) 2,4,6-Tribromphenylmonamid d. Phosphorsäuredichlorid. Sm. 148° (A. 326, 236 C. 1903 [1] 867).
- $C_6H_4ONCl_2Br_2P$ 1) 2,4-Dibromphenylmonamid d. Phosphorsäuredichlorid. Sm. 134° (A. 326, 234 C. 1903 [1] 867).
- $C_6H_5ONCl_2BrP$ 1) 3-Bromphenylmonamid d. Phosphorsäuredichlorid. Sm. 87° (A. 326, 234 C. 1903 [1] 867).
- 2) 4-Bromphenylmonamid d. Phosphorsäuredichlorid. Sm. 98° (A. 326, 230 C. 1903 [1] 867).
- $C_6H_5O_6N_2ClBr_2S$ 1) Verbindung (aus 2,6-Dibrom-1-Diazobenzol-4-Sulfonsäure). Na, Ba (A. 330, 39 C. 1904 [1] 1141).

C₇-Gruppe.

- C₇H₈ *1) Methylbenzol. Sm. —97 bis —99° (B. 36, 2117 C. 1903 [2] 350; B. 36, 3086 C. 1903 [2] 990; C. 1904 [1] 1195).
- C₇H₁₀ *3) Suberen (Suberoterpen) Sd. 120—126° (A. 327, 68 C. 1903 [1] 1124).
- C₇H₁₂ *13) $\beta\delta$ -Dimethyl- $\alpha\gamma$ -Pentadien. Sd. 92—93°₇₅₀ (B. 37, 3579 C. 1904 [2] 1376).
- *14) 5-Methyl-1,2,3,4-Tetrahydrobenzol. Sd. 106—107° (109°₇₆₃) (A. 289, 343; B. 35, 2494, 2823; A. 329, 369 C. 1904 [1] 516; C. 1904 [1] 1213).
- 19) 1-Methyl-2-Tetrahydrobenzol. Sd. 106—107° (C. 1903 [1] 329).
- 20) *r*-2-Methyl-1,2,3,4-Tetrahydrobenzol. Sd. 103,5°₇₆₇ (C. 1904 [1] 1213).
- 21) 2-Methyl-1,2,3,4-Tetrahydrobenzol. Sd. 101,9°₇₅₃ (103°₇₆₀) (C. 1903 [2] 289; B. 37, 1377 C. 1904 [1] 1441; C. 1904 [1] 1213).
- 22) Kohlenwasserstoff (aus 1-Oxy-1-Methylhexahydrobenzol). Sd. 108°₇₆₀ (C. r. 138, 1323 C. 1904 [2] 219; C. r. 139, 344 C. 1904 [2] 704).
- C₇H₁₄ *8) Suberan. Sd. 117—117,3°₇₈₆ (C. 1903 [1] 568; A. 327, 63 C. 1903 [1] 1124).
- *9) Methylhexahydrobenzol (C. 1904 [1] 1345).
- C₇H₁₆ 8) α - γ -Methylhexan. Sd. 90—92° (B. 37, 1046 C. 1904 [1] 1248).
- 7 II —
- C₇H₇Br₅ *1) 2,3,4,5,6-Pentabrom-1-Methylbenzol. Sm. 182° (C. 1903 [2] 1052).
- C₇H₄O₄ C 55,3 — H 2,6 — O 42,1 — M. G. 152.
- 1) 1,2-Carbonat d. 1,2,3-Trioxybenzol. (3-Oxy-1,2-Phenylenerster d. Kohlensäure). Sm. 132—133° (B. 37, 106 C. 1904 [1] 584).
- C₇H₄O₆ *1) 1,4-Pyron-2,6-Dicarbonsäure. Sm. 262°. Na (B. 37, 3744 C. 1904 [2] 1538).
- C₇H₄Cl₄ *8) 4-Chlor-1-Trichlormethylbenzol (C. r. 136, 241 C. 1903 [1] 570).
- *9) 3,4,5-Trichlor-1-Chlormethylbenzol. Sm. 97—98° (Soc. 85, 1285 C. 1904 [2] 1293).
- 10) 2,3,4,5-Tetrachlor-1-Methylbenzol. Sm. 86—88° (Soc. 85, 1280 C. 1904 [2] 1293).
- 11) 2,3,4,6-Tetrachlor-1-Methylbenzol. Sm. 91,5—92° (Soc. 85, 1280 C. 1904 [2] 1293).
- 12) 2,3,5,6-Tetrachlor-1-Methylbenzol. Sm. 93—94° (Soc. 85, 1281 C. 1904 [2] 1293).
- C₇H₅N *2) Nitril d. Benzolcarbonsäure. Sd. 190,6°₇₀₀ (B. 36, 13 C. 1903 [1] 398).
- 5) Anhydro-3-Amidobenzol-1-Carbonsäurealdehyd (D.R.P. 62950). — *III, 12.
- C₇H₅Cl 1) Verbindung (aus 4-Chlor-1-Chlormethylbenzol) = (C₇H₅Cl)_n (R. 23, 100 C. 1904 [1] 1136).
- C₇H₅Cl₃ *1) Benzotrichlorid (B. 36, 3060 C. 1903 [2] 945; C. r. 136, 241 C. 1903 [1] 570; C. 1903 [2] 1431).
- C₇H₅Br 1) Verbindung (aus 4-Brom-1-Chlormethylbenzol) = (C₇H₅Br)_n (R. 23, 100 C. 1904 [1] 1136).
- C₇H₅O *1) Aldehyd d. Benzolcarbonsäure. + Anilinsulfit, + Anilinbisulfit, + Anilinanhydrosulfit (A. 325, 357 C. 1903 [1] 696).
- C₇H₅O₂ *4) Benzolcarbonsäure. (NH₄ H, KH (D.R.P. 138790 C. 1903 [1] 546; C. 1903 [2] 657; D.R.P. 139956 C. 1903 [1] 857; D.R.P. 140999 C. 1903 [1] 1106; B. 36, 1798 C. 1903 [2] 283; Soc. 83, 1442 C. 1904 [1] 510).
- *5) Aldehyd d. 2-Oxybenzol-1-Carbonsäure. Sm. 195—196°. + Anilinsulfit, + Anilinbisulfit, + Anilinanhydrosulfit (A. 325, 359 C. 1903 [1] 696; M. 24, 833 C. 1904 [1] 367; C. 1904 [2] 436).
- *6) Aldehyd d. 3-Oxybenzol-1-Carbonsäure (M. 24, 834 C. 1904 [1] 367).
- *7) Aldehyd d. 4-Oxybenzol-1-Carbonsäure (M. 24, 835 C. 1904 [1] 367).
- 11) Verbindung (aus p-Kresol). Sm. 120°; Zers. bei 180° (B. 36, 2032 C. 1903 [2] 360).
- C₇H₅O₃ *2) Salicylsäure. KH (C. 1903 [1] 1026; A. 32 [2] 311 C. 1903 [1] 579; Soc. 83, 1444 C. 1904 [1] 510).
- *4) 4-Oxybenzol-1-Carbonsäure. (NH₄)H, KH, Bi (Bl. [3] 31, 36 C. 1904 [1] 510; Soc. 83, 1445 C. 1904 [1] 510).
- *8) Aldehyd d. 2,4-Dioxybenzol-1-Carbonsäure. Sd. 220—228°₂₂ (D.R.P. 155731 C. 1904 [2] 1631).

- C₇H₆O₃** *10) Aldehyd d. 3,4-Dioxybenzol-1-Carbonsäure (*M.* 24, 836 *C.* 1904 [1] 367; *D.R.P.* 155731 *C.* 1904 [2] 1631).
 *13) Benzoylsuperoxyd (Benzopersäure) (*Am.* 29, 200 *C.* 1903 [1] 959).
 *15) Isosalicylsäure (*C.* 1903 [1] 80).
 *16) Aldehyd d. 2,3-Dioxybenzol-1-Carbonsäure. *Sd.* 160—170₂₂ (*D.R.P.* 155731 *C.* 1904 [2] 1631).
- C₇H₆O₄** *4) 2,4-Dioxybenzol-1-Carbonsäure. *Bi* (*Bl.* [3] 31, 37 *C.* 1904 [1] 510).
 *5) 2,5-Dioxybenzol-1-Carbonsäure. *Bi* (*Bl.* [3] 31, 37 *C.* 1904 [1] 510).
 *7) 3,4-Dioxybenzol-1-Carbonsäure. *Bi* (*Bl.* [3] 31, 176 *C.* 1904 [1] 869).
 *18) 2-Methyläther d. 2,6-Dioxy-1,4-Benzochinon (*M.* 23, 954 *C.* 1903 [1] 286).
- C₇H₆O₅** *2) Pyrogallolcarbonsäure. *Bi* (*Bl.* [3] 29, 680 *C.* 1903 [2] 492).
 7) γ -Keto- $\alpha\delta$ -Pentadien- $\alpha\epsilon$ -Dicarbonsäure. *Sm.* oberh. 230° u. *Zers.* (*B.* 37, 3297 *C.* 1904 [2] 1041).
 8) 1,4-Pyran-2,6-Dicarbonsäure. *Zers.* bei 250° (*C. r.* 139, 138 *C.* 1904 [2] 602).
- C₇H₆N₂** *4) Nitril d. 2-Amidobenzol-1-Carbonsäure. *Sm.* 48—49°; *Sd.* 267—268°₇₇₇ (*C.* 1903 [1] 174; *B.* 36, 804 *C.* 1903 [1] 977).
 *5) Nitril d. 3-Amidobenzol-1-Carbonsäure. *Sm.* 53—53,5°. *HCl* (*C.* 1904 [2] 101).
- C₇H₆N₄** *6) Nitril d. 4-Amidobenzol-1-Carbonsäure. *Sm.* 85,5—86° (*C.* 1903 [2] 113).
 5) Nitril d. Phenylazoamidoameisensäure (1-Phenyl-2-Cyantriazin). *Sm.* 72° u. *Zers.* $K + H_2O$ (*B.* 37, 2376 *C.* 1904 [2] 321).
- C₇H₆Cl₂** *1) Dichlormethylbenzol. *Sd.* 205—206° (*C. r.* 136, 241 *C.* 1903 [1] 570; *B.* 36, 3060 *C.* 1903 [2] 945; *C.* 1903 [2] 1431).
 *2) 4-Chlor-1-Chlormethylbenzol. *Sm.* 29°; *Sd.* 214° (*C. r.* 136, 241 *C.* 1903 [1] 570).
 9) 2-Chlor-1-Chlormethylbenzol. *Sd.* 213—214° (*C. r.* 136, 241 *C.* 1903 [1] 570).
- C₇H₇N** *1) Benzylidenimin (*C. r.* 137, 522 *C.* 1903 [2] 1060).
 9) polym. Methylenamidobenzol (*C.* 1903 [2] 656).
- C₇H₇N₃** *2) 6-Amidoindazol. (2HCl, PtCl₄), + 1,3,5-Trinitrobenzol (*B.* 37, 2580 *C.* 1904 [2] 659).
 8) 7-Amidoindazol. *Sm.* 155—156° (*B.* 37, 2577 *C.* 1904 [2] 658).
 9) Nitril d. Phenylhydrazin-2-Carbonsäure. *Sm.* 152—153° (156°). *HCl*, *H₂SO₄*, *Pikrat* (*B.* 29, 626; *B.* 36, 805 *C.* 1903 [1] 977). — IV, II49.
- C₇H₇Cl** *1) Chlormethylbenzol (*D.R.P.* 139552 *C.* 1903 [1] 607; *B.* 36, 3060 *C.* 1903 [2] 945; *C.* 1903 [2] 1431).
 *2) 2-Chlor-1-Methylbenzol. *Sd.* 156—158° (*C. r.* 135, 1121 *C.* 1903 [1] 283).
- C₇H₇Br** *3) 3-Brom-1-Methylbenzol (*B.* 37, 994 *C.* 1904 [1] 1415).
- C₇H₈O** *3) 3-Oxy-1-Methylbenzol (*D.R.P.* 141421 *C.* 1903 [1] 1197; *D.R.P.* 148703 *C.* 1904 [1] 553; *D.R.P.* 152652 *C.* 1904 [2] 168).
 *4) 4-Oxy-1-Methylbenzol. + *H₃PO₄* (*D.R.P.* 141421 *C.* 1903 [1] 1197 *R.* 21, 355 *C.* 1903 [1] 151; *D.R.P.* 148703 *C.* 1904 [1] 553).
 *5) Methyläther d. Oxybenzol. + *AlCl₃* (*Ar.* 242, 96 *C.* 1904 [1] 1005 *Soc.* 85, 1107 *C.* 1904 [2] 976).
- C₇H₈O₂** *4) 2,6-Dioxy-1-Methylbenzol. *Sm.* 116—121°; *Sd.* 264°₇₈₀ (*M.* 24, 906 *C.* 1904 [1] 513).
 *11) Guajakol (*C.* 1903 [1] 635).
 *12) Monomethyläther d. 1,3-Dioxybenzol. *Sd.* 243° (*A.* 327, 116 *C.* 1903 [1] 1214).
 *13) Monomethyläther d. 1,4-Dioxybenzol. *Sm.* 53° (*A.* 327, 116 *C.* 1903 [1] 1214).
 19) 1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol (p-Toluchinol). *Sm.* 74—75° (*B.* 36, 2031 *C.* 1903 [2] 360).
 20) δ -Methyl- α -Pentin- α -Carbonsäure. *Sm.* 98° (*C. r.* 136, 554 *C.* 1903 [1] 825).
- C₇H₈O₃** *2) 2,4,6-Trioxy-1-Methylbenzol. *Sm.* 214° (*A.* 329, 272 *C.* 1904 [1] 795).
 *8) 2,5-Dimethylfuran-3-Carbonsäure. *Sm.* 135—135,5° (*B.* 37, 2189 *C.* 1904 [2] 240).
 *30) 1-Methyläther d. 1,2,4-Trioxybenzol. *Sm.* 66—67° (*M.* 25, 810 *C.* 1904 [2] 1119).
 *31) Monomethyläther d. 1,3,5-Trioxybenzol. *Sm.* 80° (*A.* 329, 273 *C.* 1904 [1] 795).

- $C_7H_8O_3$ 36) 1-Methyläther d. 1,2,3-Trioxybenzol. Sm. 37—40°; Sd. 146—147°₁₅ (M. 25, 506 C. 1904 [2] 1118; M. 25, 813 C. 1904 [2] 1119).
 37) 2-Methyläther d. 1,2,3-Trioxybenzol. Sm. 85—87°; Sd. 154—155°₂₄ (M. 25, 815 C. 1904 [2] 1119).
 38) Anhydrid d. γ -Methyl- α -Buten- $\beta\gamma$ -Dicarbonsäure. Sd. 210—215° (Soc. 83, 1388 C. 1904 [1] 435).
 39) Äthylester d. Isobrenzschleimsäure. Sm. 52° (C. r. 137, 992 C. 1904 [1] 291).
- $C_7H_8O_4$ *13) Isoterebilsäure. Ca + H₂O, Ba + 2H₂O (A. 330, 321 Anm. C. 1904 [1] 928).
 *14) Isoheptodilakton (A. 330, 316 C. 1904 [1] 927; A. 331, 106 C. 1904 [1] 931).
- $C_7H_8O_5$ 7) Anhydrid d. β -Acetoxylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 87—88° (Bl. [3] 29, 1014 C. 1903 [2] 1315).
 8) $\alpha\gamma$ -Lakton d. $\beta\gamma$ -Dioxypropen- $\alpha\alpha$ -Dicarbonsäuremonoäthylester + xH₂O (Tetron- α -Carbonsäureäthylester). Sm. 75—77° (124—125° wasserfrei) (B. 36, 470 C. 1903 [1] 627).
- $C_7H_8O_6$ 13) $\alpha\epsilon$ -Diketopentan- $\alpha\epsilon$ -Dicarbonsäure. Sm. 127° (C. r. 139, 138 C. 1904 [2] 602).
 14) 1-Methyl-R-Trimethylen-2,2,3-Tricarbonsäure. Zers. bei 215° (185°?). Ca₃, Ba₃ + 8H₂O, Ag₃ (B. 17, 2833; B. 36, 1086 C. 1903 [1] 1126).
 15) $\alpha\beta$ (oder $\alpha\gamma$)-Anhydrid d. β -Oxypropanmethyläther- $\alpha\beta\gamma$ -Tricarbonsäure (Methylcitronenanhydridsäure). Sm. 131° (B. 37, 3970 C. 1904 [2] 1605).
- $C_7H_8O_7$ *3) Methylencitronensäure. Na₂ (C. 1903 [2] 1344; D.R.P. 150949 C. 1904 [1] 1379).
- $C_7H_8O_8$ *2) Propan- $\alpha\beta\beta\gamma$ -Tetracarbonsäure. Sm. 151° (J. pr. [2] 68, 165 C. 1903 [2] 760).
- C_7H_8Se 1) Methyläther d. Selenobenzol. Sd. 200—201° (Soc. 81, 1553 C. 1903 [1] 22, 144).
- $C_7H_9O_3$ 1) Aucubigenin (C. r. 138, 1114 C. 1904 [1] 1652).
- C_7H_9N *2) Benzylamin. Phosphorigsaures Salz (A. 326, 151 C. 1903 [1] 760).
 *3) 2-Amido-1-Methylbenzol (A. 327, 108 C. 1903 [1] 1213).
 *5) 4-Amido-1-Methylbenzol (A. 327, 108 C. 1903 [1] 1213).
 *10) 2,4-Dimethylpyridin. HCl, (HCl, AuCl₃), HBr (B. 37, 2065 C. 1904 [2] 123).
 *11) 2,5-Dimethylpyridin. Sd. 159—160°. (HCl, 6HgCl₂), (2HCl, PtCl₄ + 2H₂O), (HCl, AuCl₃), Pikrat (C. 1903 [1] 1034; B. 37, 2062 C. 1904 [2] 123).
 *12) 2,6-Dimethylpyridin. (HCl, HgCl₂), (HCl, AuCl₃) (B. 36, 2907 C. 1903 [2] 889).
 *14) 3,5-Dimethylpyridin. Sd. 171°. (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (C. 1903 [1] 1034; B. 37, 2064 C. 1904 [2] 123).
 17) 2,3-Dimethylpyridin. Sd. 163—164°₇₆₈. (HCl, 2HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃) (Soc. 83, 764 C. 1903 [2] 443).
- $C_7H_9N_3$ *1) Phenylguanidin. Sd. 50—60°. HNO₃, Pikrat (B. 37, 1682 C. 1904 [1] 1491).
 4) Diazobenzolmethyramid. Sm. 37—37,5° (B. 36, 911 C. 1903 [1] 974).
- $C_7H_{10}O$ *2) 1-Keto-5-Methyl-1,2,3,4-Tetrahydrobenzol (B. 37, 1672 C. 1904 [1] 1606).
 *9) 4-Keto-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sd. 178—181° (C. 1903 [1] 329; A. 329, 374 C. 1904 [1] 517).
- $C_7H_{10}O_2$ *7) α -Hexin- α -Carbonsäure. Sd. 140—142°₂₄ (C. r. 136, 553 C. 1903 [1] 824).
 *15) $\beta\delta$ -Hexadien- β -Carbonsäure. Sm. 90—92°. Cu, Ag (C. 1903 [2] 556).
 19) 2-Keto-1-Oxymethylenhexahydrobenzol. Sd. 98—100°₅₅ (A. 329, 117 C. 1903 [2] 1322).
 20) 3-Keto-4-Oxymethylen-1-Methyl-R-Pentamethylen. Sm. 53—54°; Sd. 105—112°₂₂ (A. 329, 116 C. 1903 [2] 1322).
 21) $\gamma\gamma$ -Dimethyl- α -Butin- α -Carbonsäure. Sm. 47—48°; Sd. 110°₁₀. Ba (C. r. 136, 553 C. 1903 [1] 824; Bl. [3] 29, 654 C. 1903 [2] 487).
 22) 1,2,3,4-Tetrahydrobenzol-2-Carbonsäure. Sm. 13°; Sd. 237°₇₄₈ (Soc. 85, 431 C. 1904 [1] 1082, 1439).
 23) Lakton d. γ -Methyl- γ -Oxymethyl- α -Buten- α -Carbonsäure. Sm. 177° (M. 25, 13 C. 1904 [1] 718).

- C₇H₁₀O₂** 24) Methylester d. α -Pentin- α -Carbonsäure. Sd. 80—82°₂₈ (C. r. 136, 553 C. 1903 [1] 824).
 25) Methylester d. γ -Methyl- α -Butin- α -Carbonsäure. Sd. 68—69°₂₀ (C. r. 136, 553 C. 1903 [1] 824).
- C₇H₁₀O₃** *1) s-Diacetylacetone. Na₂ + H₂O (Soc. 85, 976 C. 1904 [2] 711).
 *19) Anhydrid d. cis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sd. 273—276° (255°₈₈) (C. r. 136, 243 C. 1903 [1] 565; Soc. 83, 357 C. 1903 [1] 389, 1122).
 *20) Anhydrid d. β -Methylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 33° (Soc. 85, 551 C. 1904 [1] 1485).
 37) 4-Ketohexahydrobenzol-1-Carbonsäure + H₂O. Sm. 68°; Sd. 210°₃₀ (Soc. 85, 424 C. 1904 [1] 1082, 1439).
 38) Anhydrid d. 1- β -Methylbutan- $\gamma\delta$ -Dicarbonsäure. Sd. 138—140°₁₉ (B. 36, 1751 C. 1903 [2] 116).
- C₇H₁₀O₄** *10) α -Penten- $\alpha\beta$ -Dicarbonsäure (A. 331, 127 C. 1904 [1] 932).
 *16) trans- β -Penten- $\beta\delta$ -Dicarbonsäure. Sm. 147° (C. r. 136, 692 C. 1903 [1] 960; Bl. [3] 29, 1020 C. 1903 [2] 1315).
 *18) β -Methyl- α -Buten- $\gamma\delta$ -Dicarbonsäure (A. 331, 104 C. 1904 [1] 931).
 *21) Terakonsäure. Sm. 164° u. Zers. (B. 35, 4322 C. 1903 [1] 282; B. 36, 197 C. 1903 [1] 443; A. 331, 97 C. 1904 [1] 931).
 *37) Isoterebinsäure. Ca + 2H₂O (A. 330, 321 Ann. C. 1904 [1] 928).
 *61) trans- γ -Methyl- α -Buten- $\alpha\gamma$ -Dicarbonsäure. Sm. 163° (172°) (C. r. 136, 692 C. 1903 [1] 960; Soc. 83, 17 C. 1903 [1] 76, 443; Bl. [3] 29, 1019 C. 1903 [2] 1315).
 *62) cis- γ -Methyl- α -Buten- $\alpha\gamma$ -Dicarbonsäure. Sm. 134—135° (C. r. 136, 382 C. 1903 [1] 697; C. r. 136, 692 C. 1903 [1] 960).
 *69) $\alpha\gamma$ -Diketohexan- α -Carbonsäure. Na (Soc. 81, 1490 C. 1903 [1] 138).
 *70) $\gamma\epsilon$ -Diketo- β -Methylpentan- ϵ -Carbonsäure. K (Soc. 81, 1488 C. 1903 [1] 138).
 *73) γ -Methyl- α -Buten- $\beta\gamma$ -Dicarbonsäure. Sm. 142°. Ag₂ (Soc. 83, 1388 C. 1904 [1] 159, 435).
 79) β -Penten- $\gamma\delta$ -Dicarbonsäure ($\alpha\gamma$ -Dimethylitakonsäure). Sm. 148—150° u. Zers. (B. 37, 1618 C. 1904 [1] 1403).
 80) isom. β -Penten- $\beta\gamma$ -Dicarbonsäure (Methyläthylfumarsäure?). Sm. 202°. Ca, Ba (B. 37, 1618 C. 1904 [1] 1403).
 81) cis- γ -Methyl- α -Buten- $\alpha\gamma$ -Dicarbonsäure. Sm. 135—137° (Soc. 83, 15 C. 1903 [1] 76, 443).
 82) Säure (aus Pilopinsäure). Sm. 190°. Ag₂ (Soc. 79, 1342). — *III, 688.
 83) $\beta\delta$ -Lakton d. δ -Oxypentan- $\beta\gamma$ -Dicarbonsäure. Sm. 131°; Sd. 195°₁₄. Ag (B. 37, 1615 C. 1904 [1] 1403).
- C₇H₁₀O₅** *13) Oxyisoterebinsäure. Ca + H₂O, Ba + 2H₂O (A. 330, 315 C. 1904 [1] 927; A. 330, 321 C. 1904 [1] 928).
 31) Formalmethylenarabinsid. Sd. 155°₃₂ (R. 22, 162 C. 1903 [2] 108).
 32) Formalmethylenxylosid. Sm. 56—57° (R. 22, 161 C. 1903 [2] 108).
 33) Oxylaktonsäure (aus Isoheptodilakton). Ba (A. 330, 322 C. 1904 [1] 928).
- C₇H₁₀O₆** *8) Butan- $\alpha\beta\delta$ -Tricarbonsäure. Sm. 122° (C. 1903 [1] 628; Soc. 85, 612 C. 1904 [1] 1254, 1553).
- C₇H₁₀O₇** 10) β -Oxypropanmethylläther- $\alpha\beta\gamma$ -Tricarbonsäure + H₂O (Methylocitronensäure). Sm. 98—99° (130—131° wasserfrei). Ag₃ (A. 327, 230 C. 1903 [1] 1406).
- C₇H₁₀O₈** 4) Monoformalschleimsäure + H₂O. Sm. 175° (192°) (R. 21, 320 C. 1903 [1] 138).
- C₇H₁₀N₂** 26) 2-[β -Amidoäthyl]pyridin. Sd. 92—93°₁₂. (2HCl, PtCl₄ + 2H₂O), HBr (B. 37, 171 C. 1904 [1] 673).
 27) Pyrazol (aus 2-Semicarbazol-1-Oxymethylenhexahydrobenzol). Sm. 84°. HCl, (2HCl, PtCl₄), (HCl, AuCl₃) (A. 329, 118 C. 1903 [2] 1322).
 28) Pyrazol (aus 3-Semicarbazol-4-Oxymethylen-1-Methyl-R-Pentamethylen. Fl. (2HCl, PtCl₄) (A. 329, 117 C. 1903 [2] 1322).
 29) 4-Methyl-5-Aethyl-1,3-Diazin. Sd. 193,5°₇₅. HCl + 2HgCl₂ + 2PtCl₄ + AuCl₃ (B. 36, 1917 C. 1903 [2] 208).
 30) Nitril d. Pentan- $\alpha\epsilon$ -Dicarbonsäure. Sd. 171—172°₁₂ (B. 37, 3590 C. 1904 [2] 1407).
- C₇H₁₁N** 13) Nitril d. Hexahydrobenzolcarbonsäure. Sd. 185—185,5°₇₂₅. HCl, (2HCl, PtCl₄), (HCl, AuCl₃) (C. 1904 [1] 1214).

- C₇H₁₁N₃** *5) 4-Hydrazido-2,6-Dimethylpyridin. HCl, H₂SO₄, Pikrat (*B.* 36, 1116 *C.* 1903 [1] 1185).
 7) 2-Amido-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 168—169°; Sd. 250°₇₀₄ (*B.* 36, 1919 *C.* 1903 [2] 208).
- C₇H₁₂O** *1) δ-Oxy-α-ζ-Heptadien (*C.* 1903 [2] 1415).
 *9) 2-Keto-1-Methylhexahydrobenzol. Sm. 165° (*A.* 329, 376 *C.* 1904 [1] 517).
 21) 1-Methylhexahydrobenzol-3,4-Oxyd. Sd. 146°₇₃₅ (*C.* 1903 [2] 289; 1904 [1] 1346).
 22) Aldehyd d. Hexahydrobenzolcarbonsäure. Sd. 159° (*Bl.* [3] 29, 1050 *C.* 1903 [2] 1437; *C. r.* 137, 989 *C.* 1904 [1] 257; *C. r.* 139, 344 *C.* 1904 [2] 704).
- C₇H₁₂O₂** *2) βδ-Diketoheptan (Butyrylacetone). Sd. 69—70°₂₀. Na, Cu (*Bl.* [3] 27, 1085 *C.* 1903 [1] 225).
 *21) Hexahydrobenzolcarbonsäure (*C.* 1903 [1] 1134).
 *30) Laktone d. γ-Oxyhexan-α-Carbonsäure. Sd. 222—234°₇₄₂ (*B.* 35, 4272 *C.* 1903 [1] 281).
 *33) Laktone d. δ-Oxy-β-Methylpentan-β-Carbonsäure. Sm. 52° (*Soc.* 85, 158 *C.* 1904 [1] 720).
 *53) γδ-Diketoheptan. Sd. 145—146° (*Bl.* [3] 31, 1174 *C.* 1904 [2] 1701).
 69) α-Hexen-α-Carbonsäure. Sd. 225—228°₇₃₇. Ca (*B.* 35, 4268 *C.* 1903 [1] 281).
 70) δ-Methyl-β-Penten-δ-Carbonsäure. Sd. 213° (*Soc.* 85, 158 *C.* 1904 [1] 720).
 71) Säure (aus Naphta). Sd. 121—122°₁₁ (*D.R.P.* 151880 *C.* 1904 [2] 70).
 72) Laktone (aus β-Methylbutan-βδ-Dicarbonsäurediäthylester). Sd. 105°₁₃. Ba + 1½H₂O (*C. r.* 138, 580 *C.* 1904 [1] 925).
 73) Acetat d. 1-Oxymethyl-R-Tetramethylen. Sd. 150—151°₇₃₆ (*C.* 1903 [1] 828).
- C₇H₁₂O₃** *13) β-Ketoheptan-ζ-Carbonsäure. Sm. 50° (*A.* 329, 377 *C.* 1904 [1] 517).
 *14) δ-Keto-β-Methylpentan-β-Carbonsäure. Sm. 75,5—76,5° (*A.* 329, 99 *C.* 1903 [2] 1071; *Soc.* 85, 1219 *C.* 1904 [2] 1108).
 *27) Methylester d. γ-Keto-β-Methylbutan-β-Carbonsäure. Sd. 174—174,2° (*Soc.* 83, 1231 *C.* 1903 [2] 1420).
 *39) δ-Oxy-β-Hexen-ε-Carbonsäure. Fl. K + 1½H₂O, Ba + 3½H₂O (*C.* 1903 [2] 556).
 *45) Methylester d. β-Ketopentan-α-Carbonsäure. Sd. 86°₁₄ (*Bl.* [3] 27, 1089 *C.* 1903 [1] 226).
 49) γ-Methyl-γ-Oxymethyl-α-Buten-α-Carbonsäure. Ba (*M.* 25, 14 *C.* 1904 [1] 718).
 50) trans-4-Oxyhexahydrobenzol-1-Carbonsäure. Sm. 121° (*Soc.* 85, 430 *C.* 1904 [1] 1082, 1439).
 51) γ-Ketoheptan-α-Carbonsäure (β-Butyrylpropionsäure). Sm. 46—47° (*Bl.* [3] 27, 1093 *C.* 1903 [1] 226).
 52) ε-Keto-β-Methylpentan-ε-Carbonsäure. Sm. 22°; Sd. 101—102°₁₂ (*Bl.* [3] 31, 1152 *C.* 1904 [2] 1707).
 53) α-Keto-ββ-Dimethylbutan-α-Carbonsäure (Dimethyläthylbrenztraubensäure). Sd. 86°₁₆. Ca + H₂O (*A.* 327, 209 *C.* 1903 [1] 1407).
 54) Äthylester d. α-Ketobutan-α-Carbonsäure (Ä. d. Butyrylameisensäure). Sd. 179—180° (*B.* 37, 2386 *Anm.* *C.* 1904 [2] 307; *Bl.* [3] 31, 1149 *C.* 1904 [2] 1706).
 55) Monoäthylester d. Propan-ββ-Dicarbonsäuremonaldehyd. Sd. 163 bis 164°₇₄₆ (*Bl.* [3] 31, 161 *C.* 1904 [1] 869).
 56) Butyrat d. α-Oxy-β-Ketopropan. Sd. 106—107°₃₇ (*C. r.* 138, 1275 *C.* 1904 [2] 93).
- C₇H₁₂O₄** *8) Pentan-αδ-Dicarbonsäure. Sm. 57,5—61,5° (*C.* 1903 [2] 23, 289).
 *9) Pentan-αε-Dicarbonsäure. Sm. 103—104° (*B.* 37, 3591 *C.* 1904 [2] 1407).
 *13) trans-Pentan-βδ-Dicarbonsäure. Sm. 140—141° (*Soc.* 83, 359 *C.* 1903 [1] 1122).
 *14) cis-Pentan-βδ-Dicarbonsäure. Sm. 126—127° (128°) (*C. r.* 136, 382 *C.* 1903 [1] 697; *Soc.* 83, 358 *C.* 1903 [1] 1122; *Bl.* [3] 29, 1018 *C.* 1903 [2] 1315).
 *19) trans-β-Methylbutan-αγ-Dicarbonsäure. Fl. (*Soc.* 83, 357 *C.* 1903 [1] 389, 1122).

- C₇H₁₂O₄** *20) *cis*- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 84—85° (82—83°; 87°) (*Bl.* [3] 29, 333 *C. 1903* [1] 1216; *C. r.* 136, 243 *C. 1903* [1] 565; *Soc.* 83, 357 *C. 1903* [1] 389, 1122).
- *21) β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Sm. 89,2° (*C. 1903* [2] 288, 289, 1425).
- *23) β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 90° (82°) (*Soc.* 83, 13 *C. 1903* [1] 76, 443; *C. r.* 136, 1463 *C. 1903* [2] 282; *A.* 329, 97 *C. 1903* [2] 1071; *C. r.* 138, 580 *C. 1904* [1] 925).
- *34) Dimethylester d. Propan- $\alpha\beta$ -Dicarbonsäure. Sd. 197—198° (*Soc.* 85, 543 *C. 1904* [1] 1485).
- *42) Diäthylester d. Malonsäure. + AlCl₃ (*B.* 36, 268 *C. 1903* [1] 440; *B.* 36, 1333 *C. 1903* [1] 1301; *Soc.* 85, 1108 *C. 1904* [2] 976).
- 57) α -Acetoxy- β -Methylpropan- β -Carbonsäure. Sm. 56°. Ca (*Bl.* [3] 31, 125 *C. 1904* [1] 644).
- 58) Monomethylester d. *cis*-Butan- $\beta\gamma$ -Dicarbonsäure. Sm. 38°. Ag (*Soc.* 85, 545 *C. 1904* [1] 1484).
- 59) Monomethylester d. *trans*-Butan- $\beta\gamma$ -Dicarbonsäure. Sm. 49°. Ag (*Soc.* 85, 546 *C. 1904* [1] 1484).
- 60) α -Methylester d. β -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 52°. Ag (*Soc.* 85, 547 *C. 1904* [1] 1485).
- 61) β -Methylester d. β -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 40,5—41°; Sd. 141°₁₄. Ag (*Soc.* 85, 548 *C. 1904* [1] 1485).
- C₇H₁₂O₅** 40) γ -Oxy- β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 158—160° (*Soc.* 83, 14 *C. 1903* [1] 76, 443).
- 41) Oxyssäure (aus Pilopinsäure). Ba, Ag₂ (*Soc.* 79, 1337 *C. 1902* [1] 50). — *III, 688.
- C₇H₁₂O₆** *2) d-Chinasäure (*Ph. Ch.* 44, 467 *C. 1903* [2] 570).
- *3) $\gamma\delta$ -Dioxy-pentan- $\alpha\beta$ -Dicarbonsäure. Ba + 3 $\frac{1}{2}$ H₂O (*A.* 330, 318 *C. 1904* [1] 928).
- *11) Diäthylester d. Dioxymethandicarbonsäure. Sm. 57° (*C. r.* 137, 197 *C. 1903* [2] 659; *B.* 37, 1782 *C. 1904* [1] 1483).
- 16) Methylengalakotosid. Sm. 203° (*R.* 22, 163 *C. 1903* [2] 108).
- 17) Methylennannosid. Sm. 188° (*R.* 22, 164 *C. 1903* [2] 109).
- 18) Monopropylester d. d-Weinsäure. K (*Soc.* 85, 1124 *C. 1904* [2] 1206).
- C₇H₁₂O₉** 6) isom. Pentaoxypimelinsäure. Ca (*B.* 35, 4020 *C. 1903* [1] 391).
- C₇H₁₂N₂** 10) 3-Methyl-5-Propylpyrazol (oder 5 Methyl-3-Propylpyrazol). Sd. 136 bis 137°₄₀ (*Bl.* [3] 27, 1087 *C. 1903* [1] 226; *Bl.* [3] 27, 1099 *C. 1903* [1] 227).
- 11) Nitril d. Hexahydropyridin-1-Methylcarbonsäure (N. d. Piperidylessigsäure). Sm. 19°; Sd. 210° (*B.* 36, 4193 *C. 1904* [1] 263; *C. 1904* [2] 1378; *B.* 37, 4082 *C. 1904* [2] 1723).
- C₇H₁₂N₄** 3) 2,6-Diamido-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 161—162°; Sd. 310° (2HCl, PtCl₄) (*B.* 36, 1920 *C. 1903* [2] 208).
- C₇H₁₂Br₂** 6) 3,4-Dibrom-1-Methylhexahydrobenzol. Sd. 130°₄₀ (*C. 1904* [1] 1213; 1904 [2] 220).
- C₇H₁₃Cl** *7) 3-Chlor-1-Methylhexahydrobenzol. Sd. 63,5—65°₄₀ (*C. 1904* [1] 1345).
- *9) 1-Chlor-1-Methylhexahydrobenzol (*C. 1904* [1] 1345).
- 12) 2-Chlor-1-Methylhexahydrobenzol. Sd. 65—67°₄₀ (*C. 1904* [1] 1345).
- C₇H₁₃Br** *1) 3-Brom-1-Methylhexahydrobenzol. Sd. 181°₇₅₈ (*C. 1904* [1] 1345; *B.* 37, 851 *C. 1904* [1] 1146).
- *7) Brom-R-Heptamethylen. Sd. 101,5°₄₀ (*C. 1903* [1] 567; *A.* 327, 63 *C. 1903* [1] 1124).
- C₇H₁₃J** *2) 3-Jod-1-Methylhexahydrobenzol. Sd. 205—206°₇₃₄ (*C. 1904* [1] 1346).
- C₇H₁₄O** *1) δ -Oxy- δ -Methyl- α -Hexen (*C. 1903* [2] 1415).
- *3) Oxy-R-Heptamethylen. Sd. 184—185°₇₅₆ (*C. 1904* [1] 1214).
- *4) 2-Oxy-Methylhexahydrobenzol. Sd. 168—170° (*A.* 329, 375 *C. 1904* [1] 517; *C. 1904* [1] 1346).
- *8) 2-Oxy-1,3-Dimethyl-R-Pentamethylen (*C. 1903* [2] 1415).
- *12) β -Ketoheptan. Sd. 149—150° (*Bl.* [3] 29, 674 *C. 1903* [2] 487).
- *15) δ -Keto- β -Methylhexan (*C. r.* 137, 576 *C. 1903* [2] 1110).
- *17) β -Keto- γ -Methylhexan. Sd. 146—147° (*C. 1903* [1] 1023; *B.* 36, 2715 *C. 1903* [2] 987).
- *26) Oenanthol. + Anilinsulfit, + Anilinanhydrosulfit (*A.* 325, 356 *C. 1903* [1] 696).
- *29) 1-Oxy-1-Methylhexahydrobenzol. Sm. 12°; Sd. 155°₇₆₀ (*C. r.* 138, 1321 *C. 1904* [2] 219).

- C₇H₁₄O** 35) δ -Oxy- $\beta\delta$ -Dimethyl- β -Penten. Sd. 46°_{14} (B. 37, 3578 C. 1904 [2] 1376).
 36) Oxy-methylhexahydrobenzol. (Hexahydrobenzylalkohol). Sd. 82°_{11} (181°_{755}) (C. r. 137, 61 C. 1903 [2] 551; C. r. 139, 344 C. 1904 [2] 704).
 37) Aldehyd d. Hexan- γ -Carbonsäure. Sd. $141-143^{\circ}$ (C. r. 138, 92 C. 1904 [1] 505).
- C₇H₁₄O₂** 52) 3,4-Dioxy-1-Methylhexahydrobenzol. Sd. 134°_{18} (C. 1904 [2] 220).
 53) Monomethyläther d. isom. 1,2-Dioxyhexahydrobenzol. Sd. $184-185^{\circ}_{782}$ (C. r. 136, 384 C. 1903 [1] 711).
 54) Äthyläther d. α -Oxy- β -Ketopentan. Sd. $164-165^{\circ}$ (C. r. 138, 91 C. 1904 [1] 505).
 55) Oxyd (aus d. Glycerin d. Methyläthylallylcarbinol). Sd. $201-203^{\circ}_{758}$ (C. 1904 [2] 185).
 56) $\beta\beta$ -Dimethylbutan- δ -Carbonsäure. Sm. -1 bis $+3^{\circ}$; Sd. $211-214^{\circ}$ (C. r. 136, 554 C. 1903 [1] 825; Bl. [3] 29, 664 C. 1903 [2] 487).
 57) Säure (aus Naphta). Sd. $207-209^{\circ}$ (C. 1903 [1] 1134).
 58) Aldehyd d. δ -Oxy- β -Methylpentan- γ -Carbonsäure. Sd. $100-110^{\circ}_{35}$ (M. 22, 4; M. 24, 245 C. 1903 [2] 237).
 59) Methylster d. Pentan- γ -Carbonsäure (M. d. Diäthyllessigsäure) (C. 1903 [1] 225).
 60) Verbindung (aus d. Verb. C₆H₁₀O₂). Sd. $160-170^{\circ}$ (C. r. 137, 1205 C. 1904 [1] 356).
- C₇H₁₄O₃** *46) γ -Oxyhexan- α -Carbonsäure. Ba (B. 35, 4272 C. 1903 [1] 281).
 *48) Aldehyd d. $\alpha\gamma$ -Dioxy- $\beta\beta$ -Dimethylbutan- δ -Carbonsäure (M. 25, 1065 C. 1904 [2] 1599).
 *49) Äthylester d. α -Oxy- β -Methylpropan- β -Carbonsäure. Sd. 188°_{50} (Bl. [3] 31, 113 C. 1904 [1] 643; Bl. [3] 31, 122 C. 1904 [1] 644).
 52) δ -Oxy- β -Methylpentan- γ -Carbonsäure. Sd. 250° (M. 24, 246 C. 1903 [2] 237).
 53) α -Oxy- β -Methylpropanäthyläther- β -Carbonsäure. Sd. 123°_{22} (Bl. [3] 31, 127 C. 1904 [1] 644).
 54) Äthylester d. β -Oxy- α -Methylbuttersäure. Sd. $98-100^{\circ}_{50}$ (Bl. [3] 29, 330 C. 1903 [1] 1226).
 55) Butylester d. 1- α -Oxypropionsäure. Sd. $70,5-73^{\circ}_{10-11}$ (C. 1903 [2] 1419).
 56) Isobutylester d. 1- α -Oxypropionsäure. Sd. $72-75^{\circ}_{13}$ (C. 1903 [2] 1419).
 57) Monoacetat d. $\alpha\beta$ -Dioxy- β -Methylbutan. Sd. $145-147^{\circ}_{10}$ (C. r. 137, 758 C. 1903 [2] 1415).
- C₇H₁₄O₄** *9) α -Butyrat d. $\alpha\beta\gamma$ -Trioxypropan (C. 1903 [1] 133).
 13) α -Isobutyrat d. $\alpha\beta\gamma$ -Trioxypropan. Sd. $264-266^{\circ}$ (C. 1903 [1] 134).
- C₇H₁₄O₆** *6) α -Methyl-d-Glykosid. Sm. $164-165^{\circ}$ (M. 24, 358 C. 1903 [2] 488; Soc. 83, 1313 C. 1904 [1] 86).
 *7) β -Methyl-d-Glykosid (Soc. 83, 1312 C. 1904 [1] 86).
 22) Methylchitosid + H₂O. Sm. 169° (B. 35, 4021 C. 1903 [1] 391).
- C₇H₁₄O₅** 9) Chitoheptonsäure. Ba (B. 35, 4022 C. 1903 [1] 391).
- C₇H₁₄N₂** *1) Nitril d. Dipropylamidoameisensäure. Sd. 97°_{17} (B. 36, 1198 C. 1903 [1] 1215).
 *7) α -Diäthylamidopropionsäure. Sd. 68°_{17} (B. 37, 4089 C. 1904 [2] 1724).
 8) polym. $\alpha\epsilon$ -Di[Methylenamido]pentan. Sm. 251° (B. 36, 38 C. 1903 [1] 502).
 9) Nitril d. α -Propylamidobuttersäure. Sd. $176-177^{\circ}$ (C. 1904 [2] 945).
 10) Nitril d. α -Isobutylamidopropionsäure. Sd. $168-169^{\circ}$ (C. 1904 [2] 945).
- C₇H₁₅N** *7) 3-Amido-1-Methylhexahydrobenzol. Sd. 150° (C. r. 138, 1258 C. 1904 [2] 105).
 *13) 1-Äthylhexahydropyridin. d-Bromcamphersulfonat (Soc. 83, 1144 C. 1903 [2] 1063).
 31) 1-Amidomethylhexahydrobenzol. Sd. 163°_{740} (C. 1904 [1] 1214).
 32) Methylamidohexahydrobenzol. Sd. 145° (C. r. 138, 1258 C. 1904 [2] 105).
 33) 2,5-Dimethylhexahydropyridin. Sd. $138-140^{\circ}$. HCl, (2HCl, PtCl₄), (HCl, AuCl₃), HBr, HJ (C. 1903 [1] 1034; B. 37, 2063 C. 1904 [2] 123).
- C₇H₁₅Br** *1) α -Bromheptan. Sd. $175,5-177,5^{\circ}_{765}$ (C. 1903 [1] 961).
 *2) β -Bromheptan (C. 1903 [2] 100).
- C₇H₁₆O** *1) α -Oxyheptan. Sd. 175° (M. 25, 1087 C. 1904 [2] 1698).
 *7) ζ -Oxy- β -Methylbutan. Sd. $167-169^{\circ}_{755}$ (C. r. 136, 1261 C. 1903 [2] 106).
 *9) γ -Oxy- γ -Äthylpentan. Sd. 142°_{764} (B. 36, 1009 C. 1903 [1] 1077; C. 1903 [2] 1415).

- C₇H₁₆O** 18) Isopropyläther d. β -Oxy- β -Methylpropan. *Sd.* 75–76°₇₈₅ (*C.* 1904 [1] 1065).
- C₇H₁₆O₂** 11) $\alpha\zeta$ -Dioxy- γ -Methylhexan. *Sd.* 155°₁₂ (*C. r.* 137, 329 *C.* 1903 [2] 711).
12) $\alpha\epsilon$ -Dioxy- $\beta\beta$ -Dimethylpentan. *Sd.* 134°₁₀ (*C. r.* 137, 329 *C.* 1903 [2] 711).
- C₇H₁₆O₃** *5) $\alpha\alpha$ -Diäthyläther d. $\alpha\alpha\gamma$ -Trioxypropan (*B.* 36, 3658 *C.* 1903 [2] 1311).
7) $\alpha\gamma\epsilon$ -Trioxy- $\beta\beta$ -Dimethylpentan. *Fl. (M.* 25, 1068 *C.* 1904 [2] 1599).
8) δ -Oxy- $\gamma\gamma$ -Di[Oxymethyl]- γ -Methylbutan. *Sm.* 83–83,5° (*B.* 36, 1342 *C.* 1903 [1] 1298).
- C₇H₁₆N₂** 9) 1-Amido-2, 4-Dimethylhexahydropyridin. *Sd.* 170–175° (*B.* 37, 2065 *C.* 1904 [2] 123).
10) 1-Amido-2, 6-Dimethylhexahydropyridin. *Sd.* 170–175° (*C.* 1903 [1] 1034).
- C₇H₁₇N** 15) act. β -Aethylamidopentan (Aethyl-act. sec. Amylamin). (2HCl, PtCl₄) (*C.* 1904 [1] 923).
16) α -Isopropylamido- β -Methylpropan (Isopropylisobutylamin). (2HCl, PtCl₄) (*C.* 1904 [1] 923).
- C₇H₁₈Sn** 2) Zinndimethyläthylpropyl. *Sd.* 153°₇₆₂ (*C.* 1904 [1] 353).

— 7 III —

- C₇H₂OCl₄** 5) 2, 3, 5, 6-Tetrachlor-4-Keto-1-Methylen-1, 4-Dihydrobenzol. *Sm.* noch nicht bei 270° (*A.* 328, 295 *C.* 1903 [2] 1248).
- C₇H₂O₄Br₂** 1) 1, 2-Carbonat d. 4, 6-Dibrom-1, 2, 3-Trioxybenzol. *Sm.* 146° (*B.* 37, 112 *C.* 1904 [1] 585).
- C₇H₂NCl₃** *1) Nitril d. 2, 4, 6-Trichlorbenzol-1-Carbonsäure. *Sm.* 77,5° (*R.* 21, 384 *C.* 1903 [1] 152).
- C₇H₂OCl₃** *3) Chlorid d. 2, 6-Dichlorbenzol-1-Carbonsäure. *Sd.* 142–143°₂₁ (*Soe.* 83, 1214 *C.* 1903 [2] 1330).
*4) Chlorid d. 3, 4-Dichlorbenzol-1-Carbonsäure. *Sd.* 159–160°₄₂ (*Soe.* 83, 1214 *C.* 1903 [2] 1330).
5) Chlorid d. 2, 3-Dichlorbenzol-1-Carbonsäure. *Sd.* 140°₁₄ (*Soe.* 83, 1214 *C.* 1903 [2] 1330).
6) Chlorid d. 2, 4-Dichlorbenzol-1-Carbonsäure. *Sd.* 150°₃₄ (*Soe.* 83, 1214 *C.* 1903 [2] 1330).
7) Chlorid d. 2, 5-Dichlorbenzol-1-Carbonsäure. *Sd.* 137°₁₅ (*Soe.* 83, 1214 *C.* 1903 [2] 1330).
8) Chlorid d. 3, 5-Dichlorbenzol-1-Carbonsäure. *Sd.* 135–137°₃₅ (*Soe.* 83, 1214 *C.* 1903 [2] 1330).
- C₇H₃OCl₅** 3) 2, 2, 3, 5, 6-Pentachlor-1-Keto-4-Methyl-1, 2-Dihydrobenzol. *Sm.* 99–100° (*A.* 328, 285 *C.* 1903 [2] 1246).
- C₇H₃O₂Cl₃** *6) 2, 4, 6-Trichlorbenzol-1-Carbonsäure. *Sm.* 164° (*R.* 21, 385 *C.* 1903 [1] 152).
- C₇H₃O₂Cl₅** 4) 2, 2, 4, 4, 5-Pentachlor-1, 3-Diketo-6-Methyl-1, 2, 3, 4-Tetrahydrobenzol. *Sm.* 85° (*A.* 328, 308 *C.* 1903 [2] 1248).
- C₇H₃O₃Cl₃** 3) 3, 3, 6-Trichlor-1, 2, 4-Triketo-5-Methyl-1, 2, 3, 4-Tetrahydrobenzol + 2H₂O? *Sm.* 77–78° (*A.* 328, 319 *C.* 1903 [2] 1247).
- C₇H₃O₃Br₃** *2) 2, 4, 6-Tribrom-3-Oxybenzol-1-Carbonsäure + $\frac{1}{2}$ H₂O. *Sm.* 145–146° (*G.* 32 [2] 338 *C.* 1903 [1] 580).
- C₇H₃O₄Br** 1) 1, 2-Carbonat d. 4-[oder 6]-Brom-1, 2, 3-Trioxybenzol. *Sm.* 155° (*B.* 37, 111 *C.* 1904 [1] 584).
- C₇H₃O₆N** 2) Carbonat d. 4-Nitro-1, 2, 3-Trioxybenzol. *Sm.* 148–149° (*B.* 37, 113 *C.* 1904 [1] 555).
- C₇H₃O₇N₃** 2) 2-Nitroso-4, 6-Dinitrobenzol-1-Carbonsäure. *Sm.* 229° u. Zers. + C₆H₆ (*B.* 36, 962 *C.* 1903 [1] 969).
- C₇H₃O₈N₃** *1) 2, 4, 6-Trinitrobenzol-1-Carbonsäure. *Sm.* 210° u. Zers. (*R.* 21, 380 *C.* 1903 [1] 151; *Soe.* 85, 237 *C.* 1904 [1] 1006).
- C₇H₃NBr₂** *1) Nitril d. 3, 5-Dibrombenzol-1-Carbonsäure. *Sm.* 96,5–97° (*C.* 1903 [2] 1194).
- C₇H₃N₂Br₃** 1) Nitril d. p-Tribrom-3-Amidobenzol-1-Carbonsäure. *Sm.* 177–178° (*C.* 1904 [2] 104).
- C₇H₄OCl₄** *3) Methyläther d. 2, 3, 4, 6-Tetrachlor-1-Oxybenzol. *Sm.* 64–65° (*B.* 37, 4015 *C.* 1904 [2] 1716).
4) 2, 3, 5, 6-Trichlor-4-Oxy-1-Methylbenzol. *Sm.* 190° (*A.* 328, 281 *C.* 1903 [2] 1245).

- $C_7H_4OCl_4$ 5) 2,2,5,6-Tetrachlor-1-Keto-4-Methyl-1,2-Dihydrobenzol? Sm. 106 bis 107° (A. 328, 283 C. 1903 [2] 1246).
- $C_7H_4OBr_4$ *2) 2,4,5,6-Tetrabrom-3-Oxy-1-Methylbenzol. Sm. 191–192° (A. 333, 356 C. 1904 [2] 1116).
- *7) 2,3,5-Tribrom-4-Oxy-1-Brommethylbenzol. Sm. 122° (A. 334, 330 C. 1904 [2] 988).
- $C_7H_4OS_2$ 1) Thiocarbonylthiobrenzkatechin. Sm. 99,5° (C. 1904 [2] 1176).
- $C_7H_4O_2N_2$ *2) Nitril d. 2-Nitrobenzol-1-Carbonsäure. Sm. 109,5° (C. 1903 [1] 174).
- *3) Nitril d. 3-Nitrobenzol-1-Carbonsäure. Sm. 117–117,5° (C. 1904 [2] 100).
- *5) Imid d. Pyridin-2,3-Dicarbonsäure. K (B. 37, 2131 C. 1904 [2] 232).
- $C_7H_4O_2Cl_2$ *4) 2,4-Dichlorbenzol-1-Carbonsäure. Sm. 156–158° (B. 37, 221 C. 1904 [1] 588).
- *10) Aldehyd d. 3,5-Dichlor-4-Oxybenzol-1-Carbonsäure. Sm. 158–159° (B. 37, 4033 C. 1904 [2] 1719).
- 12) Aldehyd d. 3,5-Dichlor-2-Oxybenzol-1-Carbonsäure. Sm. 95° (B. 37, 4027 C. 1904 [2] 1718).
- $C_7H_4O_2Cl_4$ 5) 2,3,5,6-Tetrachlor-4-Keto-1-Oxy-1-Methyl-1,4-Dihydrobenzol. Sm. 166° B. 28, 3122; A. 328, 300 C. 1903 [2] 1248. — *III, 251.
- $C_7H_4O_2Br_2$ *8) 3,5-Dibrombenzol-1-Carbonsäure. Sm. 219,5–220,5° (C. 1903 [2] 1194).
- $C_7H_4O_2Br_4$ 5) Aldehyd d. 2-Tetrabrom-3-Oxy-2-Dihydrobenzol-1-Carbonsäure. Sm. 118° (D.R.P. 68583). — *III, 48.
- $C_7H_4O_2Cl_2$ *2) 3,5-Dichlor-2-Oxybenzol-1-Carbonsäure. Sm. 219° (B. 37, 4030 C. 1904 [2] 1718).
- 6) 3,6-[oder 5,6]-5[oder 3]-Oxy-2-Methyl-1,4-Benzochinon. Sm. 157 bis 158° (A. 328, 321 C. 1903 [2] 1247).
- $C_7H_4O_2Cl_4$ 1) Ketochlorid + H_2O (aus 3,5,6-Trichlor-1,2-Dioxy-4-Keto-1-Methyl-1,4-Dihydrobenzol). Sm. 97° (103° wasserfrei) (A. 328, 307 C. 1903 [2] 1248).
- $C_7H_4O_3Cl_6$ 4) Säure (aus 2,2,4,4,5-Pentachlor-1,3-Diketo-6-Methyl-1,2,3,4-Tetrahydrobenzol). Sm. 133° (A. 328, 310 C. 1903 [2] 1248).
- $C_7H_4O_3Br_2$ *2) 3,5-Dibrom-2-Oxybenzol-1-Carbonsäure. Sm. 221° (Soc. 81, 1480 C. 1903 [1] 144).
- *3) 3,5-Dibrom-4-Oxybenzol-1-Carbonsäure. Sm. 266° u. Zers. (G. 33 [1] 70 C. 1903 [1] 876).
- 8) 4,6-Dibrom-3-Oxybenzol-1-Carbonsäure. Sm. 194–195° (G. 32 [2] 337 C. 1903 [1] 579).
- 9) 4,6[P]-Dibrom-3-Oxybenzol-1-Carbonsäure + H_2O . Sm. 202° (Soc. 81, 1483 C. 1903 [1] 23, 144).
- $C_7H_4O_3Hg$ 2) Anhydrid d. Oxymerkurosälicylsäure (G. 32 [2] 306 C. 1903 [1] 578).
- $C_7H_4O_3N_4$ C 32,8 — H 1,5 — O 50,8 — N 21,9 — M. G. 256.
- 1) 2,4,6-Trinitrobenzaldoxim. Sm. 158° (B. 36, 961 C. 1903 [1] 969).
- 2) Amid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 264° u. Zers. (R. 21, 382 C. 1903 [1] 152).
- $C_7H_4O_3N_4$ C 29,2 — H 1,4 — O 50,0 — N 19,4 — M. G. 288.
- 1) Methyläther d. 2,3,5,6-Tetranitro-1-Oxybenzol. Sm. 112° (und 154°). + C_6H_6 (R. 23, 115 C. 1904 [2] 205).
- $C_7H_4N_2Br_2$ 3) Nitril d. 3,5-Dibrom-2-Amidobenzol-1-Carbonsäure. Sm. 156 bis 156,5° (C. 1903 [2] 1194).
- C_7H_5ON *1) Benzoxazol. Sm. 30–31°; Sd. 182–183°. + $HgCl_2$ (B. 36, 2054 C. 1903 [2] 383).
- *2) Anthranil. ($2HCl$, $SnCl_4$) (B. 36, 819 C. 1903 [1] 1026; B. 36, 831 C. 1903 [1] 1027; B. 36, 839 C. 1903 [1] 1028; B. 36, 2465 C. 1903 [2] 559; B. 36, 3637 C. 1903 [2] 1331; B. 36, 3645 C. 1903 [2] 1332; B. 36, 4295 C. 1904 [1] 507; B. 36, 4178 C. 1904 [1] 278; B. 37, 966 C. 1904 [1] 1078).
- *3) Nitril d. 2-Oxybenzol-1-Carbonsäure. Sm. 98°. NH_4 , Anilinsalz (B. 36, 581 C. 1903 [1] 709).
- *8) Phenylisocyanat. Sm. 162° (B. 36, 2477 C. 1903 [2] 559; M. 24, 851 C. 1904 [1] 364).

- $C_7H_5ON_3$ *3) 4-Keto-3,4-Dihydro-1,2,3-Benzotriazin (*J. pr.* [2] 69, 102 *C.* 1904 [1] 730).
- C_7H_5OCl *4) Chlorid d. Benzolcarbonsäure. + $FeCl_3$ (*Am.* 29, 141 *C.* 1903 [1] 715; *R.* 22, 316 *C.* 1903 [2] 203).
- $C_7H_5OCl_3$ 4) 2,3,5-Trichlor-4-Oxy-1-Methylbenzol. *Sm.* 66–67° (*A.* 328, 279 *C.* 1903 [2] 1245).
- $C_7H_5OCl_7$ 1) 1,2,3,3,5,5,6-Heptachlor-4-Keto-1-Methyl-1,4-Dihydrobenzol. *Sm.* 110° (*A.* 328, 286 *C.* 1903 [2] 1245).
- C_7H_5OBr *3) Aldehyd d. 4-Brombenzol-1-Carbonsäure. *Sm.* 57° (*B.* 37, 188 *C.* 1904 [1] 638).
- *4) 3,5-Dibrom-4-Oxy-1-Brommethylbenzol. *Sm.* 149–150° (*B.* 36, 1883 *C.* 1903 [2] 290).
- $C_7H_5O_2N$ *3) Aldehyd d. 3-Nitrosobenzol-1-Carbonsäure (*B.* 36, 2310 *C.* 1903 [2] 429; *Am.* 30, 111 *C.* 1903 [2] 719).
- *4) Aldehyd d. 4-Nitrosobenzol-1-Carbonsäure. *Sm.* 137,5° (*B.* 36, 2308 *C.* 1903 [2] 429; *Am.* 30, 111 *C.* 1903 [2] 719).
- 7) Verbindung (aus 2-Nitro-1-Oxymethylbenzol). = $(C_7H_5O_2N)_x$. Zers. bei 237° (*B.* 37, 3429 *C.* 1904 [2] 1213).
- $C_7H_5O_2N_3$ *1) 6-Nitroindazol. *Sm.* 181°. HCl , $(2HCl, PtCl_4)$ (*B.* 37, 2577 *C.* 1904 [2] 658).
- *2) 6-Nitrobenzimidazol (*B.* 36, 3968 *C.* 1904 [1] 177).
- 18) 4-Nitroindazol. *Sm.* 203°. $(2HCl, PtCl_4)$ (*B.* 37, 2582 *C.* 1904 [2] 659).
- 19) 5-Nitroindazol. *Sm.* 208° (*B.* 37, 2584 *C.* 1904 [2] 659).
- 20) 7-Nitroindazol. *Sm.* 186,5–187,5° (*B.* 37, 2575 *C.* 1904 [2] 658).
- 21) 1,2,9-Benzisotriazol-5-Carbonsäure (*B.* 36, 1114 *C.* 1903 [1] 1184).
- 22) Nitril d. 3-Nitrophenylamidoameisensäure. *Sm.* 133–134° (*C.* 1903 [2] 111).
- $C_7H_5O_3Cl$ *3) 2-Chlorbenzol-1-Carbonsäure. *Sm.* 142° (*C.* 1903 [2] 550; *D.R.P.* 146174 *C.* 1903 [2] 1224).
- *6) Aldehyd d. 5-Chlor-2-Oxybenzol-1-Carbonsäure. *Sm.* 99,5° (*B.* 37, 4024 *C.* 1904 [2] 1717).
- 9) Aldehyd d. 3-Chlor-4-Oxybenzol-1-Carbonsäure. *Sm.* 156° (139°) (*B.* 10, 2196; *G.* 28 [1] 235; *D.R.P.* 105798 *C.* 1900 [1] 523; *B.* 37, 4032 *C.* 1904 [2] 1718). — III, 82; *III, 60.
- $C_7H_5O_3Cl_3$ 7) 3,5,6-Trichlor-2,4-Dioxy-1-Methylbenzol. *Sm.* 134° (*A.* 328, 307 *C.* 1903 [2] 1248).
- 8) 2,3,5-Trichlor-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. *Sm.* 89 bis 90° (*A.* 328, 299 *C.* 1903 [2] 1248).
- $C_7H_5O_3Br$ *3) 2-Brombenzol-1-Carbonsäure. $(NH_4)H$, KH (*See.* 83, 1443 *C.* 1904 [1] 510; *See.* 85, 243 *C.* 1904 [1] 1006).
- *4) 3-Brombenzol-1-Carbonsäure. + H_2SO_4 , $(NH_4)H$, K (*R.* 21, 350 *C.* 1903 [1] 150; *See.* 83, 1443 *C.* 1904 [1] 510; *See.* 85, 243 *C.* 1904 [1] 1006).
- *5) 4-Brombenzol-1-Carbonsäure. $(NH_4)H$, KH (*See.* 83, 1443 *C.* 1904 [1] 510).
- *6) Aldehyd d. 5-Brom-2-Oxybenzol-1-Carbonsäure. *Sm.* 104–105° (*B.* 37, 3934 *C.* 1904 [2] 1596).
- 8) Aldehyd d. *p*-Brom-3-Oxybenzol-1-Carbonsäure. *Sm.* 40–45° (*D.R.P.* 28078). — *III, 58.
- $C_7H_5O_3Br_3$ *5) Monomethyläther d. 4,5,6-Tribrom-1,2-Dioxybenzol (*C. r.* 135, 968 *C.* 1903 [1] 145).
- $C_7H_5O_3J$ *2) 2-Jodbenzol-1-Carbonsäure. *Sm.* 162° (*H.* 37, 436 *C.* 1903 [1] 1150; *See.* 85, 1272 *C.* 1904 [2] 1303).
- *3) 3-Jodbenzol-1-Carbonsäure. *Sm.* 187–188° (*See.* 85, 1273 *C.* 1904 [2] 1303).
- *4) 4-Jodbenzol-1-Carbonsäure. *Sm.* 265° (*See.* 85, 1274 *C.* 1904 [2] 1303).
- 10) Aldehyd d. *p*-Jod-2-Oxybenzol-1-Carbonsäure. *Sm.* 52–54° (*J. pr.* [2] 59, 116). — * I, 51.
- $C_7H_5O_3N$ *2) 2-Nitrosobenzol-1-Carbonsäure. *Sm.* 213° u. Zers. (*R.* 22, 298 *C.* 1903 [2] 231; *B.* 36, 3651 *C.* 1903 [2] 1332; *B.* 37, 3430 *C.* 1904 [2] 1214).
- *3) Aldehyd d. 2-Nitrobenzol-1-Carbonsäure (*B.* 36, 819 *C.* 1903 [1] 1025; *Bl.* [3] 31, 134 *C.* 1904 [1] 721).

- $C_7H_5O_3N$ *4) Aldehyd d. 3-Nitrobenzol-1-Carbonsäure (*B.* 36, 819 *C.* 1903 [1] 1025).
 *5) Aldehyd d. 4-Nitrobenzol-1-Carbonsäure (*B.* 36, 819 *C.* 1903 [1] 1025).
 6) 3-Nitrosobenzol-1-Carbonsäure. Zers. bei 230° (*B.* 37, 334 *C.* 1904 [1] 658).
 7) 4-Nitrosobenzol-1-Carbonsäure. Zers. bei 250° (*B.* 37, 334 *C.* 1904 [1] 658).
 8) Gem. Anhydrid d. Salpetrigensäure u. Benzolcarbonsäure. *Fl.* (*G.* 34 [1] 444 *C.* 1904 [2] 511).
- $C_7H_5O_3Cl$ *4) 5-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 168° (*B.* 37, 4027 *C.* 1904 [2] 1718).
 *6) 3-Chlor-4-Oxybenzol-1-Carbonsäure. Sm. 169° (*B.* 37, 4035 *C.* 1904 [2] 1719).
- $C_7H_5O_3Cl_3$ 4) 3,5,6-Trichlor-1,2-Dioxy-4-Keto-1-Methyl-1,4-Dihydrobenzol + H_2O . Sm. 125° (*A.* 328, 304 *C.* 1903 [2] 1248).
- $C_7H_5O_3Cl_5$ 4) Säure (aus 2,2,4,4,5-Pentachlor-1,3-Diketo-6-Methyl-1,2,3,4-Tetrahydrobenzol). Sm. 115° (*A.* 328, 309 *C.* 1903 [2] 1248).
- $C_7H_5O_3Br$ *3) 5-Brom-2-Oxybenzol-1-Carbonsäure (*Soc.* 85, 1228 *C.* 1904 [2] 204, 1032).
 *4) 3-Brom-4-Oxybenzol-1-Carbonsäure + H_2O . Sm. 156° (*G.* 33 [1] 69 *C.* 1903 [1] 876).
 7) 6-Brom-3-Oxybenzol-1-Carbonsäure. Sm. 221° (*G.* 32 [2] 335 *C.* 1903 [1] 579).
- $C_7H_5O_4N$ *3) 2-Nitrobenzol-1-Carbonsäure. KH (*B.* 36, 1799 *C.* 1903 [2] 283; *Soc.* 83, 1444 *C.* 1904 [1] 510; *Soc.* 85, 241 *C.* 1904 [1] 1006).
 *4) 3-Nitrobenzol-1-Carbonsäure. $(NH_4)H$, KH (*Soc.* 83, 1444 *C.* 1904 [1] 510; *Soc.* 85, 242 *C.* 1904 [1] 1006).
 *5) 4-Nitrobenzol-1-Carbonsäure. $(NH_4)H$, KH (*Soc.* 83, 1444 *C.* 1904 [1] 510; *Soc.* 85, 242 *C.* 1904 [1] 1006).
 *9) Pyridin-2,6-Dicarbonsäure. $NaH + 3H_2O$ (*M.* 24, 205 *C.* 1903 [2] 48).
 *10) Pyridin-3,4-Dicarbonsäure (*M.* 24, 203 *C.* 1903 [2] 48).
 19) 3-Nitro-2-Methyl-4-Benzochinon. Sm. 64–65° (*Soc.* 85, 528 *C.* 1904 [1] 1256, 1490).
- $C_7H_5O_4N_3$ *2) Nitril d. 6-Nitro-2-Hydroxylamido-3-Oxybenzol-1-Carbonsäure (Metapurpursäure). Zers. bei 92°. NH_4 , K + $2H_2O$, $BaOH + H_2O$ (*B.* 33, 2718; *B.* 37, 1847 *C.* 1904 [1] 1492). — *II, 380.
- $C_7H_5O_4Cl$ 1) Methylester d. 3-Chlor-1,2-Pyron-5-Carbonsäure. Sm. 138,5° (*B.* 37, 3831 *C.* 1904 [2] 1614).
- $C_7H_5O_4Br$ 5) Acetylbromisobrenzschleimsäure. Sm. 76° (*C. r.* 136, 50 *C.* 1903 [1] 443).
- $C_7H_5O_5N$ *4) 5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 229–230° (*C.* 1903 [2] 550).
 17) 6-Nitro-2-Oxybenzol-1-Carbonsäure? Sm. 130° (*B.* 35, 3865 *C.* 1903 [1] 154).
 18) Aldehyd d. 2-Nitro-3,4-Dioxybenzol-1-Carbonsäure. Sm. 176°. K_2 (*B.* 36, 2931 *C.* 1903 [2] 888; *B.* 36, 3528 *C.* 1903 [2] 1378).
 19) Aldehyd d. 5-Nitro-3,4-Dioxybenzol-1-Carbonsäure. Sm. 106°. K_2 (*B.* 36, 2933 *C.* 1903 [2] 888).
- $C_7H_5O_5N_3$ *2) Amid d. 3,5-Dinitrobenzol-1-Carbonsäure. Sm. 183° (*J. pr.* [2] 69, 461 *C.* 1904 [2] 595).
- $C_7H_5O_6N$ 4) 2-Nitro-2,4-Dioxybenzol-1-Carbonsäure + $\frac{1}{2}H_2O$. Sm. 215° (wasserfrei). Na_2 , Na_3 , K_2 , K_3 , $Ba + 3H_2O$, $Ba_2 + 10H_2O$, Ag , Ag_2 (*M.* 25, 25 *C.* 1904 [1] 723).
- $C_7H_5O_7N$ *1) Oximidokomensäure? (*G.* 33 [2] 233 *C.* 1904 [1] 45).
 $C_7H_5O_7N_3$ *1) 3,4,5-Trinitro-2-Oxy-1-Methylbenzol (*J. pr.* [2] 67, 553 *C.* 1903 [2] 240).
 *3) Methyläther d. 2,4,6-Trinitro-1-Oxybenzol. Sm. 58° (*Am.* 29, 104 *C.* 1903 [1] 708; *R.* 22, 269 *C.* 1903 [2] 198).
 5) Methyläther d. 2,3,5-Trinitro-1-Oxybenzol. Sm. 104° (*R.* 23, 112 *C.* 1904 [2] 205).
- $C_7H_5N_2Cl$ 4) 5- oder -6-Chlorbenzimidazol. Sm. 125°. ($2HCl$, $PtCl_4$), (HCl , $AuCl_3$) (*B.* 37, 556 *C.* 1904 [1] 893).

- $C_7H_5ClF_2$ *1) Chlordifluormethylbenzol (*C.* 1903 [1] 14).
 $C_7H_5ON_2$ *3) 1,3-Phenylenharstoff (D.R.P. 146914 *C.* 1903 [2] 1486).
 13) Phenyleyanhydroxylamin. $2HCl$ (*B.* 37, 1540 *C.* 1904 [1] 1411).
 14) isom. 3-Keto-1,3-Dihydroindazol⁹ Sm. 206°. (*Cu*, *CuSO₄*) (*J. pr.* [2] 69, 94 *C.* 1904 [1] 729).
 $C_7H_6OCl_2$ *5) 3,5-Dichlor-4-Oxy-1-Methylbenzol. Sm. 39°; Sd. 235—240° (*A.* 328, 278 *C.* 1903 [2] 1245).
 $C_7H_6O_2N_2$ 11) Ricininsäure. Zers. bei 320° (*C. r.* 138, 506 *C.* 1904 [1] 896).
 $C_7H_6O_2Cl_2$ 8) 3,5-Dichlor-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 123° (*A.* 328, 298 *C.* 1903 [2] 1248).
 $C_7H_6O_2Br_2$ 8) 1-Methyläther d. 2-Dibrom-1,2-Dioxybenzol. Sm. 94—95° (*C.* 1903 [1] 1339).
 $C_7H_6O_3N_2$ *4) anti-2-Nitrobenzaldoxim. Sm. 102—103° (*B.* 36, 4268 *C.* 1904 [1] 374).
 *5) syn-2-Nitrobenzaldoxim. Sm. 148—150° (*B.* 36, 4269 *C.* 1904 [1] 374).
 *6) anti-3-Nitrobenzaldoxim. Sm. 121° (*B.* 36, 4270 *C.* 1904 [1] 374; *B.* 37, 180 *C.* 1904 [1] 880).
 *7) syn-3-Nitrobenzaldoxim (*B.* 36, 4270 *C.* 1904 [1] 374; *B.* 37, 181 *C.* 1904 [1] 880).
 *8) anti-4-Nitrobenzaldoxim. Sm. 130° (*B.* 36, 4269 *C.* 1904 [1] 374).
 *9) syn-4-Nitrobenzaldoxim. Sm. 174° (*B.* 36, 4269 *C.* 1904 [1] 374).
 25) 3-Nitro-4-Nitroso-1-Methylbenzol. Sm. 145—145,4° (*B.* 36, 3821 *C.* 1904 [1] 18).
 26) Aldehyd d. 4-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 124° (*B.* 37, 1862 *C.* 1904 [1] 1600).
 27) Aldehyd d. 5-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 200,5 bis 201° (*M.* 24, 98 *C.* 1903 [1] 921).
 28) Aldehyd d. 6-Nitro-3-Amidobenzol-1-Carbonsäure (*M.* 24, 8 *C.* 1903 [1] 775).
 29) Aldehyd d. 3-Nitro-4-Amidobenzol-1-Carbonsäure. Sm. 190,5 bis 191° (*M.* 24, 92 *C.* 1903 [1] 921).
 $C_7H_6O_3Cl_2$ 6) 3,6-Dichlor-2,4,5-Trioxyl-1-Methylbenzol. Sm. 77—78° (*A.* 328, 320 *C.* 1903 [2] 1247).
 $C_7H_6O_3Br_2$ *1) 3,5-Dibrom-2,4,6-Trioxyl-1-Methylbenzol. Sm. 132—134° (*M.* 25, 315 *C.* 1904 [1] 1494).
 $C_7H_6O_4N_2$ *7) 2,4-Dinitro-1-Methylbenzol. Sm. 71° (*C.* 1903 [2] 194).
 *8) 2,5-Dinitro-1-Methylbenzol. Sm. 48° (*C.* 1903 [2] 194).
 *13) 2,4-Dinitroso-3,5-Dioxy-1-Methylbenzol (*B.* 37, 1406 *C.* 1904 [1] 1416).
 *17) 3-Nitro-2-Amidobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
 *19) 5-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 269,5° (*B.* 36, 1802 *C.* 1903 [2] 283).
 *24) 3-Nitro-4-Amidobenzol-1-Carbonsäure. Sm. 284° (D.R.P. 151725 *C.* 1904 [1] 1588).
 32) 6-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 180° u. Zers. (*B.* 35, 3863 *C.* 1903 [1] 154).
 33) Amid d. 1,4-Pyron-2,6-Dicarbonsäure (*B.* 37, 3752 *C.* 1904 [2] 1539).
 $C_7H_6O_4N_4$ 2) 2,6-Diketo-3-Methylpurin-8-Carbonsäure + $2H_2O$ (D.R.P. 153121 *C.* 1904 [2] 625).
 $C_7H_6O_4Cl_2$ 1) Verbindung (aus 2-Amido-3,5-Dioxy-1-Methylbenzol). Sm. 117° (*B.* 37, 1428 *C.* 1904 [1] 1418).
 $C_7H_6O_4S$ 6) Aldehyd d. Benzol-1-Carbonsäure-4-Sulfonsäure. Na (D.R.P. 154528 *C.* 1904 [2] 1269).
 $C_7H_6O_4Hg$ 1) Oxymerkurosilylsäure. NH_4 (*G.* 32 [2] 308 *C.* 1903 [1] 579).
 $C_7H_6O_6N_2$ *7) Methyläther d. 2,3-Dinitro-1-Oxybenzol. Sm. 118,5° (*Am.* 29, 447 *C.* 1903 [1] 510; *R.* 22, 280 *C.* 1903 [2] 198).
 *8) Methyläther d. 2,4-Dinitro-1-Oxybenzol. Sm. 86,9° (*Am.* 29, 447 *C.* 1903 [1] 510; *R.* 22, 267 *C.* 1903 [2] 198).
 *9) Methyläther d. 2,5-Dinitro-1-Oxybenzol. Sm. 97° (*Am.* 29, 447 *C.* 1903 [1] 510; *R.* 22, 280 *C.* 1903 [2] 198).
 *10) Methyläther d. 2,6-Dinitro-1-Oxybenzol. Sm. 117,5° (*Am.* 29, 447 *C.* 1903 [1] 510; *R.* 22, 267 *C.* 1903 [2] 198).

- $C_7H_5O_5N_2$ *11) Methyläther d. 3,4-Dinitro-1-Oxybenzol. Sm. 69,3° (*Am.* 29, 447 *C.* 1903 [1] 510; *R.* 22, 280 *C.* 1903 [2] 198).
- *12) Methyläther d. 3,5-Dinitro-1-Oxybenzol. Sm. 105,8° (*Am.* 29, 447 *C.* 1903 [1] 510).
- $C_7H_5O_5N_4$ 3) 2,6-Dinitro-4-Amidobenzaldoxim? Sm. 243° (*B.* 36, 961 *C.* 1903 [1] 969).
- $C_7H_5O_5S$ *1) Benzol-1-Carbonsäure-2-Sulfonsäure. Na_2 (*Am.* 30, 271 *C.* 1903 [2] 1119).
- *2) Benzol-1-Carbonsäure-3-Sulfonsäure (*M.* 23, 1108 *C.* 1903 [1] 396).
- *3) Benzol-1-Carbonsäure-4-Sulfonsäure. Na (*M.* 23, 1132 *C.* 1903 [1] 396).
- $C_7H_5O_6N_2$ *2) 3,5-Dinitro-2,4-Dioxy-1-Methylbenzol. Sm. 90° (*J. pr.* [2] 67, 550 *C.* 1903 [2] 240; *J. pr.* [2] 67, 556 *C.* 1903 [2] 240).
- *5) 1-Methyläther d. 3,5-Dinitro-1,2-Dioxybenzol. Sm. 122° (*M.* 23, 1030 *C.* 1903 [1] 258; *B.* 36, 2257 *C.* 1903 [2] 428; *R.* 23, 112 *C.* 1904 [2] 205).
- *9) 1-Methyläther d. 4,6-Dinitro-1,3-Dioxybenzol. Sm. 110° (*R.* 23, 122 *C.* 1904 [2] 206).
- $C_7H_5O_6N_4$ *3) 2,4,6-Trinitro-3-Amido-1-Methylbenzol. Sm. 138° (*R.* 21, 332 *C.* 1903 [1] 78).
- $C_7H_5O_6S$ *1) 2-Oxybenzol-1-Carbonsäure-5-Sulfonsäure. (NH_4 , HF) (*A.* 328, 146 *C.* 1903 [2] 992).
- $C_7H_5O_7S_2$ 1) Aldehyd d. Benzol-1-Carbonsäure-2,4-Disulfonsäure. $Na_2 + 2H_2O$ (D.R.P. 98321; D.R.P. 154528 *C.* 1904 [2] 1269). — *III, 15.
- 2) Aldehyd d. Benzol-1-Carbonsäure-2,5-Disulfonsäure (D.R.P. 91315). — *III, 16.
- $C_7H_6O_5S$ 2) 3,4,5-Trioxybenzol-1-Carbonsäure-2-Sulfonsäure. $K, Ba + H_2O, Bi$ (D.R.P. 74602). — *II, 1112.
- C_7H_6NCl 2) polym. Anhydroformaldehyd-m-Chloranilin. Sm. 228° (*B.* 36, 46 *C.* 1903 [1] 504).
- $C_7H_6NCl_3$ 7) 2,5,6-Trichlor-3-Amido-1-Methylbenzol. Sm. 66—67° (*Soc.* 85, 1281 *C.* 1904 [2] 1293).
- $C_7H_6NBBr_3$ 10) 2,4,6-Tribrom-1-Methylamidobenzol. Sm. 37° (*B.* 37, 2344, 2346 *C.* 1904 [2] 433).
- $C_7H_6N_2S$ *3) 1,4-Phenylenthioharnstoff. Sm. 279° (*Ar.* 241, 163 *C.* 1903 [2] 109).
- *4) 1-Amidobenzthiazol (*A.* 212, 326; *B.* 36, 3135 *C.* 1903 [2] 1071).
- $C_7H_6N_2Cl$ 1) p-Chlor-5-Amidoindazol. Sm. 172—173° (*B.* 37, 2585 *C.* 1904 [2] 659).
- C_7H_5ClBr *2) 4-Brom-1-Chlormethylbenzol. Sm. 41°; Sd. 236° (*R.* 23, 99 *C.* 1904 [1] 1136).
- *3) 3-Chlor-5-Brom-1-Methylbenzol. Sm. 25—26° (*Soc.* 85, 1269 *C.* 1904 [2] 1302).
- 6) 2-Chlor-3-Brom-1-Methylbenzol. Sd. 125—135°₅₀ (*Soc.* 85, 1266 *C.* 1904 [2] 1302).
- 7) 2-Chlor-4-Brom-1-Methylbenzol. Sd. 100—110°₁₀ (*Soc.* 85, 1267 *C.* 1904 [2] 1302).
- 8) 2-Chlor-5-Brom-1-Methylbenzol. Sd. 127—129°₄₅ (*Soc.* 85, 1267 *C.* 1904 [2] 1302).
- 9) 2-Chlor-6-Brom-1-Methylbenzol. Sd. 118—120°₄₀ (*Soc.* 85, 1268 *C.* 1904 [2] 1302).
- 10) 3-Chlor-2-Brom-1-Methylbenzol. Sd. 103—105°₂₅ (*Soc.* 85, 1266 *C.* 1904 [2] 1302).
- 11) 3-Chlor-4-Brom-1-Methylbenzol. Sd. 125—130°₂₅ (*Soc.* 85, 1269 *C.* 1904 [2] 1302).
- 12) 3-Chlor-6-Brom-1-Methylbenzol. Sd. 98—100°₂₅ (*Soc.* 85, 1267).
- 13) 4-Chlor-2-Brom-1-Methylbenzol. Sd. 112—114°₁₂ (*Soc.* 85, 1267 *C.* 1904 [2] 1302).
- 14) 4-Chlor-3-Brom-1-Methylbenzol. Sd. 120—125°₃₃ (*Soc.* 85, 1269 *C.* 1904 [2] 1302).
- C_7H_7ON *4) anti-Benzaldoxim. + $HgNO_3, 2 + AgNO_3$ (*C.* 1903 [2] 878).
- *8) Aldehyd d. 2-Amidobenzol-1-Carbonsäure (*C. r.* 136, 371 *C.* 1903 [1] 635; *M.* 24, 94 *C.* 1903 [1] 921; *B.* 36, 2046 *C.* 1903 [2] 382).
- *10) Aldehyd d. 4-Amidobenzol-1-Carbonsäure (*M.* 24, 87 *C.* 1903 [1] 921).
- *11) Amid d. Benzolcarbonsäure (*J. pr.* [2] 70, 307 *C.* 1904 [2] 1567).

- C₇H₇ON** *12) Phenylamid d. Ameisensäure. Sm. 47°; Sd. 166°₁₄ (B. 36, 2476 C. 1903 [2] 559).
 18) 4-Imido-1-Keto-2[oder 3]-Methyl-1,4-Dihydrobenzol. HCl (B. 37, 1680 C. 1904 [1] 1496).
 19) isom. anti-Benzaldoxim. Sm. 5° (B. 37, 3043 C. 1904 [2] 1215).
- C₇H₇OCl** *4) 3-Chlor-4-Oxy-1-Methylbenzol. Sd. 194—196° (A. 328, 277 C. 1903 [2] 1245).
 *9) 2-Chlor-1-Oxymethylbenzol. Sm. 72° (B. 37, 3696 C. 1904 [2] 1387).
 10) 6-Chlor-2-Oxy-1-Methylbenzol. Sm. 86° (B. 37, 1019 C. 1904 [1] 1202).
 11) 2-Chlor-4-Oxy-1-Methylbenzol. Sm. 55°; Sd. 228°₇₆₀ (D.R.P. 156333 C. 1904 [2] 1673).
- C₇H₇OBr** *2) 3-Brom-1-Oxymethylbenzol. Sd. 250° (B. 37, 3693 C. 1904 [2] 1387).
 11) 6-Brom-2-Oxy-1-Methylbenzol. Sm. 95° (B. 37, 1022 C. 1904 [1] 1203).
 12) 2-Brom-4-Oxy-1-Methylbenzol. Sm. 55—56°; Sd. 245—246° (D.R.P. 156333 C. 1904 [2] 1673).
- C₇H₇OJ** *9) 3-Jodoso-1-Methylbenzol. Zers. bei 206—207°. HClO₄, HJO₃, HNO₃, H₂CrO₄, H₂SO₄ (A. 327, 269 C. 1903 [2] 350).
 10) 6-Jod-2-Oxy-1-Methylbenzol. Sm. 90° (B. 37, 1024 C. 1904 [1] 1203).
- C₇H₇O₂N** *3) 2-Nitro-1-Methylbenzol. + AlCl₃ (Bl. [3] 31, 133 C. 1904 [1] 721; Soc. 85, 1108 C. 1904 [2] 976).
 *5) 4-Nitro-1-Methylbenzol (B. 36, 4260 C. 1904 [1] 402).
 *14) Benzhydroxamsäure (G. 33 [2] 241 C. 1904 [1] 24; G. 33 [2] 305 C. 1904 [1] 288).
 *16) 2-Amidobenzol-1-Carbonsäure (C. 1903 [1] 922; D.R.P. 146716 C. 1903 [2] 1226; D.R.P. 145604 C. 1903 [2] 1099; B. 37, 592 C. 1904 [1] 881).
 *25) Pyridinbetaïn. HCl (A. 326, 318 C. 1903 [1] 1088).
 *27) Methylbetaïn d. Pyridin-3-Carbonsäure (M. 24, 709 C. 1904 [1] 218).
 *39) 2-Methylpyridin-6-Carbonsäure. Sm. 128—129° (B. 36, 2908 C. 1903 [2] 890).
 *40) Methylbetaïn d. Pyridin-4-Carbonsäure. Sm. 264° (M. 24, 705 C. 1903 [2] 1282; M. 24, 710 C. 1904 [1] 218).
 *43) Methyläther d. 4-Nitroso-1-Oxybenzol. Sm. 23° (B. 37, 44 C. 1904 [1] 654).
 45) 2-Nitroso-1-Oxymethylbenzol. Sm. 101° (B. 36, 838 C. 1903 [1] 1028).
 46) 2-Formylamido-1-Oxybenzol. Sm. 129—129,5° (B. 36, 833 C. 1903 1027; B. 36, 2044 C. 1903 [2] 383; B. 36, 2052 C. 1903 [2] 383).
 47) 4-Formylamido-1-Oxybenzol. Sm. 139—140° (D.R.P. 146265 C. 1903 [2] 1227).
 48) Aldehyd d. 4-Hydroxylamidobenzol-1-Carbonsäure (D.R.P. 89978 C. 1897 [1] 351; B. 36, 2304 C. 1903 [2] 428).
- C₇H₇O₂N₃** *5) 4-Semicarbazol-1-Keto-1,4-Dihydrobenzol. Zers. bei 178° (A. 334, 175 C. 1904 [2] 834).
 *11) Amid d. Pyridin-2,6-Dicarbonsäure. Sm. 302° (M. 24, 207 C. 1903 [2] 48).
 *15) α-Nitroso-α-Phenylharnstoff (M. 24, 853 C. 1904 [1] 364).
 21) Äthylester d. αβ-Dicyan-β-Imidopropionsäure. Sm. 162° u. Zers. (A. 332, 155 C. 1904 [2] 192).
- C₇H₇O₂Br** 7) 2-Brom-4-Oxy-1-Oxymethylbenzol. Sm. 137—138° (A. 334, 330 C. 1904 [2] 988).
- C₇H₇O₂J** *6) 3-Jodo-1-Methylbenzol. Zers. bei 220° (A. 327, 272 C. 1903 [2] 350).
- C₇H₇O₂N** *2) 2-Nitro-1-Oxymethylbenzol (B. 37, 3429 C. 1904 [2] 1213).
 *5) 3-Nitro-2-Oxy-1-Methylbenzol. Sm. 64,5°. Na + 2H₂O, K + 1/2 H₂O, Rb + H₂O (Am. 30, 320 C. 1903 [2] 1116; A. 330, 98 C. 1904 [1] 1076).
 *7) 5-Nitro-2-Oxy-1-Methylbenzol. Sm. 93—95° (A. 330, 94 C. 1904 [1] 1075).
 *8) 6-Nitro-2-Oxy-1-Methylbenzol. Sm. 145° (B. 37, 1020 C. 1904 [1] 1202).

- $C_7H_7O_3N$ *13) 3-Nitro-4-Oxy-1-Methylbenzol. Sm. 34° (*Am.* 32, 15 *C.* 1904 [2] 696).
 *17) Methyläther d. 4-Nitro-1-Oxybenzol (*R.* 23, 37 *C.* 1904 [1] 1137).
 *18) 2-Nitroso-3,5-Dioxy-Methylbenzol (*B.* 36, 882 *C.* 1903 [1] 964).
 46) 1-Methyläther d. 4-Nitroso-1,3-Dioxybenzol. K (*B.* 35, 1477 *C.* 1902 [1] 1208; *J. pr.* [2] 70, 337 *C.* 1904 [2] 1542).
 47) 5-Methyläther d. 2-Oximido-5-Oxy-1-Keto-1,2-Dihydrobenzol. Sm. 168° (*B.* 35, 1478 *C.* 1902 [1] 1208; *J. pr.* [2] 70, 337 *C.* 1904 [2] 1542).
 48) 3-Amido-1-Oxybenzol- β -Carbonsäure. Sm. 148° u. Zers. HCl, H_2SO_4 (D. R. P. 50835). — *II, 915.
- $C_7H_7O_3N_3$ *2) 3-Nitro-1-Methylnitrosamidobenzol. Sm. 67° (*A.* 327, 112 *C.* 1903 [1] 1213).
 *3) 4-Nitro-1-Methylnitrosamidobenzol. Sm. 104° (*A.* 327, 113 *C.* 1903 [1] 1213).
 22) 4-Nitro-2-Amidobenzaldoxim. Sm. 193° (*B.* 37, 1864 *C.* 1904 [1] 1600).
 23) 5-Nitro-2-Amidobenzaldoxim. Sm. 203° (*M.* 24, 98 *C.* 1903 [1] 922).
- $C_7H_7O_3Br$ 4) 3-Brom-2,4,6-Triox-1-Methylbenzol + $4H_2O$. Sm. 129—130° (*M.* 25, 316 *C.* 1904 [1] 1494).
- $C_7H_7O_4N$ *4) 2-Nitro-3,5-Dioxy-1-Methylbenzol (β -Nitroorcin). Sm. 122°. K, Ag (*B.* 36, 887 *C.* 1903 [1] 965).
 *5) 4-Nitro-3,5-Dioxy-1-Methylbenzol (α -Nitroorcin). Sm. 127° (*B.* 36, 887 *C.* 1903 [1] 965).
 *6) 2-Methyläther d. 4-Nitro-1,2-Dioxybenzol. Sm. 105° (*B.* 36, 2257 *C.* 1903 [2] 428).
 *7) 1-Methyläther d. 4-Nitro-1,3-Dioxybenzol. Sm. 95° (*R.* 21, 322 *C.* 1903 [1] 79).
 *10) Pyromekursäure. Sm. 165° (*B.* 37, 2956 *C.* 1904 [2] 993).
 *13) Amid d. 3,4,5-Trioxbenzol-1-Carbonsäure. $BiOH + H_2O$ (*Bl.* [3] 29, 531 *C.* 1903 [2] 243).
 19) 6-Nitro-2,5-Dioxy-1-Methylbenzol. Sm. 117—118° (*Soc.* 85, 528 *C.* 1904 [1] 1256, 1490).
 20) 1-Methyläther d. 3-Nitro-1,2-Dioxybenzol. Sm. 103° (*B.* 36, 2257 *C.* 1903 [2] 428).
 21) 3-Methyläther d. 4-Oximido-3,5-Dioxy-1-Keto-1,4-Dihydrobenzol. K, Ag (*M.* 23, 949 *C.* 1903 [1] 285).
 22) β -Amido-2,4-Dioxybenzol-1-Carbonsäure + H_2O . Sm. 193° (wasserfrei). HCl + $2H_2O$, H_2SO_4 (*M.* 25, 41 *C.* 1904 [1] 723).
 23) β -Acetylamidofuran-2-Carbonsäure. Zers. bei 285°. K + $5H_2O$, Ca + $7H_2O$ (*C. r.* 136, 1455 *C.* 1903 [2] 292).
- $C_7H_7O_4Cl_3$ 2) Verbindung (aus 2-Amido-3,5-Dioxy-1-Methylbenzol). Sm. 97° (*B.* 37, 1427 *C.* 1904 [1] 1418).
- $C_7H_7O_5N$ *1) Aethylester d. β -Nitrofuran-2-Carbonsäure (*C. r.* 137, 520 *C.* 1903 [2] 1069).
- $C_7H_7O_5N_3$ 13) 3,5-Dinitro-2-Amido-4-Oxy-Methylbenzol. Sm. 141—142° (*J. pr.* [2] 67, 552 *C.* 1903 [2] 240).
 14) Methyläther d. 3,5-Dinitro-2-Amido-1-Oxybenzol. Sm. 174° (*R.* 23, 113 *C.* 1904 [2] 205).
 15) Methyläther d. 4,6-Dinitro-3-Amido-1-Oxybenzol. Sm. 156° (*R.* 23, 121 *C.* 1904 [2] 206).
- $C_7H_7NBr_2$ *10) 3,5-Dibrom-4-Amido-1-Methylbenzol. Sm. 73° (*C.* 1903 [2] 1052).
 13) 2,4-Dibrom-1-Methylamidobenzol. Sm. 48°. (HBr, Br₂) (*B.* 37, 2345 *C.* 1904 [2] 433).
- C_7H_7NS *1) Amid d. Benzolthiocarbonsäure (*C. r.* 136, 556 *C.* 1903 [1] 816).
 *2) Phenylamid d. Thioameisensäure. Sm. 138° (*B.* 37, 3714 *C.* 1904 [2] 1449).
 3) Thioformimidophenyläther. HCl (*B.* 36, 3468 *C.* 1903 [2] 1244).
- C_7H_7NSE *1) Amid d. Benzolselencarbonsäure. Sm. 115° (*B.* 37, 2551 *C.* 1904 [2] 520).
- $C_7H_7N_2Cl$ 4) 3-Methyldiazobenzolchlorid (*A.* 325, 302 *C.* 1903 [1] 704).
- $C_7H_7Cl_2J$ 4) 3-Jod-1-Methylbenzoldichlorid. Zers. bei 104° (*A.* 327, 269 *C.* 1903 [2] 350).
- $C_7H_7JF_2$ 1) 4-Methylbenzoldioddifluorid. Sm. 112° (*A.* 328, 137 *C.* 1903 [2] 990).
- $C_7H_7ON_2$ *4) Methylnitrosamidobenzol. Sd. 120,9—121,5°₁₈ (*B.* 36, 2477 *C.* 1903 [2] 559).

- $C_7H_8ON_2$ *7) 2-Amidobenzaldoxim (*B.* 36, 803 *C.* 1903 [1] 977).
 *14) 4-Methyldiazobenzol. Sulfat (*Am.* 31, 24 *C.* 1904 [1] 440).
 *23) Amid d. 4-Amidobenzol-1-Carbonsäure. Sm. 178—179° (*C.* 1903 [2] 113).
 *25) Hydrazid d. Benzolcarbonsäure (*J. pr.* [2] 69, 154 *C.* 1904 [1] 1274).
 $C_7H_8O_2N_2$ *26) s-Formylphenylhydrazin. Sm. 145° (*C.* 1903 [1] 829).
 *1) Methylnitramidobenzol (*B.* 36, 2505 *C.* 1903 [2] 489).
 *3) 3-Nitro-1-Methylamidobenzol (*A.* 327, 112 *C.* 1903 [1] 1213).
 *11) 4-Nitro-2-Amido-1-Methylbenzol. Sm. 107° (*C.* 1903 [2] 1051).
 *12) 5-Nitro-2-Amido-1-Methylbenzol. Sm. 128° (*C.* 1903 [2] 1051).
 *13) 6-Nitro-2-Amido-1-Methylbenzol. Sm. 91,5° (92°) (*C.* 1903 [2] 1051; *B.* 37, 1018 *C.* 1904 [1] 1202).
 *19) 3-Nitro-4-Amido-1-Methylbenzol. Sm. 117°. d-Camphersulfonat (*C.* 1903 [1] 1338; 1903 [2] 1051).
 *22) δ -Dicyanacetylaceton (2,3-Diimido-1,1-Diacetyl-R-Trimethylen?). Sm. 162° (*A.* 332, 147 *C.* 1904 [2] 191).
 *24) 4-Methylphenylnitrosohydroxylamin (*G.* 33 [2] 243 *C.* 1904 [1] 24).
 *40) 2,4-Diamidobenzol-1-Carbonsäure. Sm. 140°. 2HCl (*B.* 36, 1503 *C.* 1903 [2] 283).
 *42) 3,4-Diamidobenzol-1-Carbonsäure. Sm. 210—211° (*B.* 36, 4032 *C.* 1904 [1] 294).
 *51) Nitril d. α -Imido- γ -Keto- β -Aethanoylbutan- α -Carbonsäure (α -Dicyanacetylaceton) (*A.* 332, 146 *C.* 1904 [2] 191).
 *52) Hydrazid d. 2-Oxybenzol-1-Carbonsäure. Sm. 147° (*C.* 1904 [2] 1493).
 *63) 2-Hydroxylamidobenzaldoxim (*B.* 36, 3656 *C.* 1903 [2] 1332).
 68) β -Dicyanacetylaceton. Sm. 227° (*A.* 332, 146 *C.* 1904 [2] 191).
 69) γ -Dicyanacetylaceton. Sm. 211° (*A.* 332, 146 *C.* 1904 [2] 191).
 $C_7H_8O_2N_4$ *4) Theophyllin (D.R.P. 138444 *C.* 1903 [1] 370; D.R.P. 151133 *C.* 1904 [1] 1430).
 *7) Theobromin (*C.* 1903 [1] 237; D.R.P. 151133 *C.* 1904 [1] 1430).
 $C_7H_8O_2S$ *2) 1-Methylbenzol-4-Sulfinsäure. m-Toluidinsalz (*J. pr.* [2] 68, 289 *C.* 1903 [2] 995).
 $C_7H_8O_3N_2$ *27) 5-Acetyl-4-Methylpyrazol-3-Carbonsäure + H_2O . Sm. 235° (wasserfrei) (*A.* 325, 182 *C.* 1903 [1] 646).
 31) 2-Nitro-6-Amido-3-Oxy-1-Methylbenzol. Sm. 190° u. Zers. (*Soc.* 85, 527 *C.* 1904 [1] 1256, 1490).
 32) 5-Nitro-3-Amido-4-Oxy-1-Methylbenzol (D.R.P. 139213 *C.* 1903 [1] 679).
 33) 3-Acetyl-4-Methylpyrazol-5-Carbonsäure. Sm. 233° (*B.* 36, 1131 *C.* 1903 [1] 1139).
 34) Methylderivat d. α -Imido- γ -Ketobutan- α β -Dicarbonsäureimid. Sm. 226—227° (*A.* 332, 136 *C.* 1904 [2] 190).
 $C_7H_8O_3N_4$ 14) 6-Semicarbazidopyridin-3-Carbonsäure. Sm. 277—278°. HCl (*B.* 36, 1114 *C.* 1903 [1] 1184).
 $C_7H_8O_3S$ *1) 1-Methylbenzol-2-Sulfonsäure (D.R.P. 137935 *C.* 1903 [1] 108).
 *5) Methylester d. Benzolsulfonsäure. Sd. 154°₂₀ (*M.* 23, 1096 *C.* 1903 [1] 396).
 $C_7H_8O_3S_2$ 2) 4-Oxybenzylmethyläther-1-Thiolsulfonsäure. p-Phenylendiaminsalz (*J. pr.* [2] 70, 391 *C.* 1904 [2] 1721).
 $C_7H_8O_4N_2$ 10) 2,4-Diketo-1,3-Diacetyltetrahydroimidazol. Sm. 104—105° (*A.* 333, 129 *C.* 1904 [2] 895).
 11) Monoäthylester d. β -Cyan- β -Imidoäthan- $\alpha\alpha$ -Dicarbonsäure. Sm. 238° (*A.* 332, 119 *C.* 1904 [2] 189).
 12) Hydrazid d. 3,4,5-Trioxymethylbenzol-1-Carbonsäure. Zers. bei 295—298° (*C.* 1904 [2] 1494).
 $C_7H_8O_4N_4$ 7) 2,4-Dinitro-3,5-Diamido-1-Methylbenzol. Sm. 199° (*R.* 23, 126 *C.* 1904 [2] 200).
 $C_7H_8O_4S$ *7) 4-Oxy-1-Methylbenzol-3-Sulfonsäure. K + H_2O (*Am.* 31, 34 *C.* 1904 [1] 441).
 $C_7H_8O_4S_2$ 1) 1-Methylbenzol-2,4-Disulfinsäure. Fl. Na_2 , K_2 , Ba, Zn (*J. pr.* [2] 68, 332 *C.* 1903 [2] 1172).

- $C_7H_5O_3N_2$ 2) Dimethylester d. 4-Oxypyrazol-3,5-Dicarbonsäure. Sm. 232° (A. 335, 107 C. 1904 [2] 1232).
- $C_7H_5O_3S$ *2) 1,2-Dioxybenzol-1-Methyläther-3-Sulfonsäure (Bl. [3] 29, 365 C. 1904 [1] 365).
6) 1,2-Dioxybenzol-1-Methyläther-4-Sulfonsäure. Sm. noch nicht bei 270° (C. 1900 [2] 459; M. 25, 810 C. 1904 [2] 1119).
- C_7H_5NCl *9) 6-Chlor-2-Amido-1-Methylbenzol. Sd. 245⁰₇₈₀ (B. 37, 1019 C. 1904 [1] 1202).
*16) 3-Chlor-4-Amido-1-Methylbenzol. d-Camphersulfonat, d-Bromcamphersulfonat (C. 1903 [1] 1338).
21) Pyridoniumchlorid + H₂O (aus 2-β-Bromäthylpyridin). 2 + PtCl₄ (B. 37, 166 C. 1904 [1] 672).
- C_7H_5NBr 15) 6-Brom-2-Amido-1-Methylbenzol. Sd. 253—255°. H₂SO₄ (B. 37, 1022 C. 1904 [1] 1203).
16) 2-[β-Bromäthyl]pyridin. Fl. (2HCl, PtCl₄), Pikrat (B. 37, 165 C. 1904 [1] 672).
17) Pyridoniumbromid + H₂O (aus 2-β-Bromäthylpyridin). Sm. 226—227° (B. 37, 165 C. 1904 [1] 672).
- C_7H_5NJ 5) 6-Jod-2-Amido-1-Methylbenzol. Fl. HCl (B. 37, 1024 C. 1904 [1] 1203).
6) 2-[β-Jodäthyl]pyridin. (2HCl, PtCl₄), Pikrat (B. 35, 1345; B. 37, 161 C. 1904 [1] 672).
7) Pyridoniumjodid (aus 2-β-Jodäthylpyridin). Sm. 211—213° (B. 37, 162 C. 1904 [1] 672).
- $C_7H_5N_2Cl_2$ 3) 2,6-Dichlor-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 39°; Sd. 255° (B. 36, 1917 C. 1903 [2] 208).
- $C_7H_5N_2S$ *2) Amid d. 3-Amidobenzol-1-Thiocarbonsäure. Sm. 139° (B. 35, 3934 C. 1903 [1] 38).
*3) Amid d. 4-Amidobenzol-1-Thiocarbonsäure. Sm. 172° (C. 1903 [2] 113).
4) Amid d. 2-Amidobenzol-1-Thiocarbonsäure. Sm. 121—122° (C. 1903 [1] 1270).
- $C_7H_5N_4S$ 2) Phenylazothioharnstoff. Sm. 110—111° u. Zers. (B. 37, 2380 C. 1904 [2] 322).
- C_7H_5ON *1) 2-Amido-1-Oxymethylbenzol. Sm. 83°. (2HCl, PtCl₄) (M. 23, 983 C. 1903 [1] 288; C. r. 136, 371 C. 1903 [1] 635; B. 37, 2260 C. 1904 [2] 212).
*3) 4-Amido-1-Oxymethylbenzol (D.R.P. 83544; M. 23, 977 C. 1903 [1] 298).
*7) 6-Amido-2-Oxy-1-Methylbenzol. Sm. 129° (B. 37, 1021 C. 1904 [1] 1203).
*18) Methyläther d. 4-Amido-1-Oxybenzol. (2HCl, PtCl₄) (B. 36, 2966 C. 1903 [2] 1007).
*33) 2-[β-Oxyäthyl]pyridin (B. 37, 161 C. 1904 [1] 672).
*39) 4-Keto-2,6-Dimethyl-1,4-Dihydropyridin (Lutidon). $\frac{1}{2}$ HCl, HBr, $\frac{1}{2}$ HJ, (HJ, J₂) (C. 1903 [1] 167; J. pr. [2] 67, 45 C. 1903 [1] 723).
- $C_7H_5ON_3$ *10) Hydrazid d. Phenylamidoameisensäure. Sm. 122° (J. pr. [2] 70, 244 C. 1904 [2] 1463).
*11) Hydrazid d. 2-Amidobenzol-1-Carbonsäure. Sm. 123°. 2HCl (J. pr. [2] 69, 92 C. 1904 [1] 729).
18) α-Amido-α-Phenylharnstoff. Sm. 118—119°. HCl (B. 36, 1359 C. 1903 [1] 1340).
19) Inn. Anhydrid d. 2-Semicarbazol-1-Oxymethylen-R-Pentamethylen. Sm. 175—177° (A. 329, 115 C. 1903 [2] 1322).
- $C_7H_5O_2N$ *1) 4-Amido-3,5-Dioxy-1-Methylbenzol (α-Amidoorcin). HCl (B. 36, 888 C. 1903 [1] 965).
*2) 1-Methyläther d. 3-Amido-1,2-Dioxybenzol. Sm. 127° (B. 36, 2257 C. 1903 [2] 428).
*32) 5-Amido-2-Oxy-1-Oxymethylbenzol. Sm. 135—142° (D.R.P. 148977 C. 1904 [1] 699; D.R.P. 149123 C. 1904 [1] 701).
36) 2-Amido-3,5-Dioxy-1-Methylbenzol (β-Amidoorcin). HCl, H₂SO₄, Pikrat + H₂O, Oxalat, Ferrocyanat (B. 36, 888 C. 1903 [1] 965; B. 37, 1420 C. 1904 [1] 1417; B. 37, 1425 C. 1904 [1] 1418).

- $C_7H_5O_2N$ 37) 3-Amido-4-Oxy-1-Oxymethylbenzol. Sm. 112—114° (D.R.P. 148977 C. 1904 [1] 700; D.R.P. 149123 C. 1904 [1] 701).
- 38) 2-Hydroxylamido-1-Oxymethylbenzol. Sm. 104,2—104,7° (B. 36, 836 C. 1903 [1] 1028).
- 39) 4-Methyläther d. 4-Oxyphenylhydroxylamin. Sm. 98° (B. 37, 43 C. 1904 [1] 654).
- $C_7H_5O_2N_3$ 15) 4-Acetylamido-2-Keto-5-Methyl-1,2-Dihydro-1,3-Diazin. Zers. bei 250° (Am. 31, 602 C. 1904 [2] 242).
- $C_7H_5O_2Cl$ *1) 2,6-Dimethyl-1,4-Pyronhydrochlorid. Sm. 152—154° (B. 36, 1478 C. 1903 [1] 1349).
- $C_7H_5O_3N$ *4) Aethylester d. Acetylcyanessigsäure. Sm. 26° (B. 37, 3386 C. 1904 [2] 1220).
- 13) 1-Methyläther d. 2-Amido-1,3,5-Trioxybenzol. HCl (M. 23, 951 C. 1903 [1] 285).
- 14) Methylester d. α -Cyan- β -Oxypropenmethyläther- α -Carbonsäure. Sm. 96—97° (Bl. [3] 31, 341 C. 1904 [1] 1135).
- 15) Aethylester d. 2-Amidofuran-2-Carbonsäure. Sm. 95° (C. r. 136, 1454 C. 1903 [2] 292).
- $C_7H_5O_3Cl$ 3) 2-Chlormethyl-5-Methyl-2,3-Dihydrofuran-4-Carbonsäure. Sm. 108—109° (C. r. 137, 14 C. 1903 [2] 508).
- $C_7H_5O_3P$ *5) α -Oxybenzylunterphosphorigesäure. Sm. 108° (C. 1904 [2] 1709).
- $C_7H_5O_4N$ 6) Verbindung + H_2O (aus 2,5-Dimethyl-1,4-Pyron-3,4-Dicarbonsäurediäthylester). Sm. 166°. Ag (C. 1902 [2] 647; G. 34 [1] 458 C. 1904 [2] 537).
- $C_7H_5O_4P$ *2) α -Oxybenzylphosphinsäure. Sm. 195°. Ag_3 (C. r. 135, 1118 C. 1903 [1] 285).
- $C_7H_5O_5N$ 2) α -Aethylester d. β -Imidoäthan- $\alpha\alpha\beta$ -Tricarbonsäure. Sm. 134°. Na (A. 332, 120 C. 1904 [2] 189).
- $C_7H_5O_5N_3$ C 36,4 — H 3,9 — O 41,5 — N 18,2 — M. G. 231.
- 1) $\alpha\gamma$ -Diacetat d. β -Nitro- $\alpha\gamma$ -Dioximidopropan. Sm. 64—66°. Na (Am. 29, 264 C. 1903 [1] 957).
- $C_7H_5N_3S$ *1) Phenylamidothioharnstoff. Sm. 201° (J. pr. [2] 67, 217 C. 1903 [1] 1260).
- 3) 2-Amidophenylthioharnstoff. Sm. 167°. HCl, H_2SO_4 (Ar. 241, 165 C. 1903 [2] 109).
- 4) 3-Amidophenylthioharnstoff. Sm. 170°. HCl, H_2SO_4 (Ar. 241, 164 C. 1903 [2] 109).
- 5) 4-Amidophenylthioharnstoff. Sm. 190°. HCl, H_2SO_4 (Ar. 241, 162 C. 1903 [2] 109).
- $C_7H_{10}O_2N_2$ *5) Trimethyluracil (A. 327, 259 C. 1903 [2] 349).
- 22) 2,4-Diamido-3,5-Dioxy-1-Methylbenzol. 2HCl (B. 37, 1411 C. 1904 [1] 1416).
- 23) 2,6-Diamido-3,5-Dioxy-1-Methylbenzol. 2HCl (B. 37, 1413 C. 1904 [1] 1417).
- 24) 2,6-Dioxy-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 238° (B. 36, 1916 C. 1903 [2] 208).
- 25) 2-Aethyläther d. 2,6-Dioxy-4-Methyl-1,3-Diazin. Sm. 206°. HCl, (2HCl, $PtCl_4$) (C. 1904 [2] 30).
- 26) 2,4-Diketo-6-Methyl-5-Aethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 237° (Am. 29, 490 C. 1903 [1] 1309).
- 27) Methylester d. α -Cyan- β -Methylamidopropen- α -Carbonsäure. Sm. 123° (Bl. [3] 31, 341 C. 1904 [1] 1135).
- 28) Nitril d. α -Oxyessig-[β -Cyan- α -Aethoxyläthyl]äthersäure. Sm. 181°; Sd. 208°₈₅ (C. 1904 [1] 159).
- 29) Verbindung (aus d. Säure $C_8H_{10}O_4N_2$) = $(C_7H_{10}O_2N_2)_x$ (C. 1904 [1] 159).
- $C_7H_{10}O_2Br_2$ 5) 3,4-Dibromhexahydrobenzol-1-Carbonsäure. Sm. 86° (Soc. 85, 433 C. 1904 [1] 1082, 1440).
- 6) Laktone d. $\gamma\delta$ -Dibrom- β -Oxymethyl- β -Methylbutan- δ -Carbonsäure. Sm. 152° u. Zers. (M. 25, 15 C. 1904 [1] 718).
- $C_7H_{10}O_3N_2$ 14) 2,4,6-Triketo-5-Propylhexahydro-1,3-Diazin. Sm. 208° (A. 335, 358 C. 1904 [2] 1382).
- 15) 2,4,6-Triketo-5-Isopropylhexahydro-1,3-Diazin. Sm. 216° (A. 335, 358 C. 1904 [2] 1382).

- $C_7H_{10}O_3N_2$ 16) 2,4,6-Triketo-5-Methyl-5-Aethylhexahydro-1,3-Diazin (Methyl-äthylbarbitursäure). Sm. 212° (D.R.P. 144432 C. 1903 [2] 778; D.R.P. 146496 C. 1903 [2] 1484; A. 335, 343 C. 1904 [2] 1381).
- 17) Trimethyläther d. 2,4,6-Trioxo-1,3-Diazin. Sm. 53° ; Sd. 232° (B. 36, 2235 C. 1903 [2] 449).
- 18) Aethylester d. 5-Keto-3-Methyl-4,5-Dihydropyrazol-1-Carbonsäure. Sm. 202° . NH_4 , Ag (P. GUTMANN, Dissert., Heidelberg 1903).
- 19) Aethylester d. 5-Keto-3-Methyl-4,5-Dihydropyrazol-4-Carbonsäure. Sm. 196° (P. GUTMANN, Dissert., Heidelberg 1903).
- 20) Aethylester d. 3-Keto-5-Methyl-2,3-Dihydropyrazol-2-Carbonsäure. Sm. 202° (P. GUTMANN, Dissert., Heidelberg 1903).
- $C_7H_{10}O_3N_4$ *2) 5-Formylamido-6-Amido-2,4-Diketo-1,3-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin (D.R.P. 148208 C. 1904 [1] 618).
- $C_7H_{10}O_1N_2$ 10) 4-Oxy-2,5-Diketo-4-Acetyl-1,3-Dimethyltetrahydroimidazol (Acetyldimethylallantursäure). Fl. (A. 327, 266 C. 1903 [2] 349).
- $C_7H_{10}O_4Br_2$ 15) cis- $\gamma\delta$ -Dibrom- β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 149—151° (Soc. 83, 16 C. 1903 [1] 76, 443).
- 16) trans- $\gamma\delta$ -Dibrom- β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 215—217° (Soc. 83, 18 C. 1903 [1] 76, 443).
- $C_7H_{10}NCl$ *4) Chloromethylat d. 2-Methylpyridin. 2 + $PtCl_4$ (Soc. 83, 1415 C. 1904 [1] 439).
- $C_7H_{10}N_2S$ 1) Methyläther d. 2-Merkapto-4,6-Dimethyl-1,3-Diazin. Sm. 23—24°; Sd. 144°_{93} (Ann. 32, 356 C. 1904 [2] 1415).
- $C_7H_{10}N_2S_2$ 2) 2,6-Dimerkapto-4-Methyl-5-Aethyl-1,3-Diazin. Zers. bei 250° (B. 36, 1923 C. 1903 [2] 209).
- $C_7H_{10}N_3Cl$ 1) 6-Chlor-2-Amido-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 156° . Pikrat (B. 36, 1918 C. 1903 [2] 208).
- 2) 2-Chlor-6-Amido-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 220° (B. 36, 1922 C. 1903 [2] 209).
- $C_7H_{11}ON$ 14) 3-Oximido-1-Methyl- β -Tetrahydrobenzol. Sd. 113—115°₁₁ (C. 1903 [1] 329).
- 15) lab. 4-Oximido-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 40—42°; Sd. 115—117°₁₁ (A. 329, 372 C. 1904 [1] 517).
- 16) stab. 4-Oximido-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 62—63° (A. 329, 373 C. 1904 [1] 517).
- 17) 3-Methyl-5-Propylisoxazol (oder 5-Methyl-3-Propylisoxazol). Sd. 70 bis 76°_{20} (Bl. [3] 27, 1087 C. 1903 [1] 226).
- 18) Methylhydroxyd d. 2-Methylpyridin. d-Camphersulfonat (Soc. 83, 1415 C. 1904 [1] 438).
- $C_7H_{11}ON_3$ 5) Anhydridipropionylguanidin. Sm. 159—160°. (2HCl, $PtCl_4$) (Ar. 241, 469 C. 1903 [2] 988).
- 6) 2-Amido-6-Oxy-4-Methyl-5-Aethyl-1,3-Diazin. Zers. bei 285° (B. 36, 1915 C. 1903 [2] 208).
- 7) Semicarbazonanhydrid d. Keton $C_6H_{10}O_2$. Sm. 116° (C. r. 137, 1205 C. 1904 [1] 356).
- 8) isom. Semicarbazonanhydrid d. Keton $C_6H_{10}O_2$. Sm. 280° u. Zers. (C. r. 137, 1295 C. 1904 [1] 356).
- $C_7H_{11}OCl$ 4) 4-Chlor-3-Keto-1-Methylhexahydrobenzol. Sd. 110—111°₄₀ (C. 1903 [2] 289; 1904 [1] 1346; 1904 [2] 220).
- $C_7H_{11}O_2N$ *18) Imid d. Pentan- $\beta\delta$ -Dicarbonsäure. Sm. 173—175° (Soc. 83, 358 C. 1903 [1] 1122).
- 29) Imid d. cis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 108° (Bl. [3] 29, 333 C. 1903 [1] 1216).
- 30) Imid d. β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 113° . Ag (Soc. 83, 356 C. 1903 [1] 389, 1122).
- 31) Verbindung (aus Methylamin u. 1,2-Dioxybenzol). Sm. 98° (D.R.P. 141101 C. 1903 [1] 1058).
- 32) Verbindung (aus Methylamin u. 1,4-Dioxybenzol). Sm. 110° (D.R.P. 141101 C. 1903 [1] 1058).
- $C_7H_{11}O_2N_3$ *7) Amid d. 5-Keto-3-Propyl-4,5-Dihydropyrazol-1-Carbonsäure. Sm. 189° (Bl. [3] 27, 1092 C. 1903 [1] 226).
- 8) Äthyläther d. 1-Nitroso-5-Oxy-3,4-Dimethylpyrazol. Sm. 34° (B. 37, 2833 C. 1904 [2] 642).
- 9) Methylster d. Histidin. Fl. 2HCl (H. 42, 515 C. 1904 [2] 1290).

- $C_7H_{11}O_2Br$ 5) 3-Bromhexahydrobenzol-1-Carbonsäure. Sm. 122° (*Soc.* 85, 432 *C.* 1904 [1] 1082, 1440).
 6) trans-4-Bromhexahydrobenzol-1-Carbonsäure. Sm. 167° (*Soc.* 85, 431 *C.* 1904 [1] 1082, 1439).
 7) Lakton d. γ -Brom- δ -Oxy- β -Methylpentan- β -Carbonsäure. Sm. 82 bis 83° (*Soc.* 85, 159 *C.* 1904 [1] 720).
- $C_7H_{11}O_3N$ *9) r-Ecgoninsäure. Sm. 93–94°. Cu + 2 1/2 H₂O, Ag, HCl (*A.* 326, 83 *C.* 1903 [1] 842).
 10) 4-Oximidoexahydrobenzol-1-Carbonsäure. Sm. 147° (*Soc.* 85, 427 *C.* 1904 [1] 1439).
 11) Aethylester d. β -Cyan- β -Oxybuttersäure (D.R.P. 141509 *C.* 1903 [1] 1244).
 C 39,4 — H 5,2 — O 22,5 — N 32,9 — M. G. 213.
- $C_7H_{11}O_3N_5$ 1) Aethylester d. 1-Ureido-5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 201° (*A.* 325, 161 *C.* 1903 [1] 645).
- $C_7H_{11}O_4J$ 1) γ -Jod- β -Methylbutan- β -Dicarbonsäure. Sm. 168° u. Zers. (*C. r.* 136, 1463 *C.* 1903 [2] 282).
- $C_7H_{11}O_5N$ *4) Diäthylester d. Oximidomethandicarbonsäure. Sm. 172₁₂. Na (*C. r.* 137, 197 *C.* 1903 [2] 658).
 *5) Diäthylester d. Stickstoffcarbonsäureketocarbonsäure (Carboxäthyl-oxamäthan). Sm. 47; Sd. 143–144° (*B.* 37, 3680 *C.* 1904 [2] 1495).
- $C_7H_{11}O_6N$ *1) Diäthylester d. Nitromalonsäure. NH₄ (*C.* 1903 [2] 343; *B.* 37, 1784 *C.* 1904 [1] 1483; *M.* 25, 702 *C.* 1904 [2] 1109).
 2) Dimethyläthylester d. Stickstofftricarbonsäure. Sd. 127–137°₁₀ (*B.* 37, 3675 *C.* 1904 [2] 1495).
- $C_7H_{11}O_8N_3$ *1) Semicarbazon d. d-Glykuronsäurelaktone. Sm. 188–189° (202 bis 206°?) (*H.* 41, 245 *C.* 1904 [1] 1095; *H.* 41, 548 *C.* 1904 [2] 422).
 2) Carboxylamidoacetylamidooessigsäure (Diglycylglycincarbonsäure). Sm. 210 u. Zers. (*B.* 36, 2101 *C.* 1903 [1] 1304).
- $C_7H_{11}N_3S$ 4) 2-Amido-6-Merkapto-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 230–245° (*B.* 36, 1921 *C.* 1903 [2] 209).
 5) Aethyläther d. 4-Amido-2-Merkapto-5-Methyl-1,3-Diazin. Sm. 96 bis 97° (*Am.* 31, 597 *C.* 1904 [2] 242).
- $C_7H_{12}ON_2$ *8) Amid d. δ -Cyan- β -Methylbutan- δ -Carbonsäure. Sm. 104–104,5°; Sd. 275–280°₇₄₅ (*C.* 1903 [2] 192).
 *10) 5-Keto-3-Isobutyl-4,5-Dihydropyrazol. Sm. 239° (*Bl.* [3] 27, 1093 *C.* 1903 [1] 226).
 *11) 5-Keto-4-Methyl-3-Propyl-4,5-Dihydropyrazol. Sm. 184° (*Bl.* [3] 27, 1102 *C.* 1903 [1] 227).
 *12) Amid d. α -Cyanpentan- α -Carbonsäure. Sm. 125,5–126,5° (*A.* 325, 221 *C.* 1903 [1] 439).
 13) Aethyläther d. 5-Oxy-3,4-Dimethylpyrazol. Sm. 93° (*B.* 37, 2832 *C.* 1904 [2] 642).
 14) 5-Keto-3-Methyl-4-Propyl-4,5-Dihydropyrazol. Sm. 212–213° (*Bl.* [3] 31, 761 *C.* 1904 [2] 343).
- $C_7H_{12}O_4N_2$ 13) Monoacetylhydrazon d. $\beta\gamma$ -Diketopentan. Sm. 130° (*B.* 36, 3185 *C.* 1903 [2] 939).
 14) γ -Methylacetylhydrazon- β -Ketobutan. Sm. 43° (*B.* 36, 3188 *C.* 1903 [2] 939).
- $C_7H_{12}O_2N_4$ 6) Amid d. 5-Methylenhexahydro-1,3-Diazin-4,6-Dicarbonsäure. Subl. bei 170°. Hg, Ag, HCl, HJ (*G.* 33 [1] 381 *C.* 1903 [2] 579).
 C 35,0 — H 5,0 — O 13,3 — N 46,7 — M. G. 240.
- $C_7H_{12}O_2N_3$ 1) 1-Ureido-4-[α -Semicarbazonäthyl]-5-Methyl-1,2,3-Triazol. Sm. 268° u. Zers. (*A.* 325, 162 *C.* 1903 [1] 645).
- $C_7H_{12}O_3N_2$ 8) Verbindung (aus Zimmtsäureäthylester). Sm. 114–115° (*B.* 36, 4310 *C.* 1904 [1] 448).
- $C_7H_{12}O_4N_2$ *4) Nitrosat d. 5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 107–108° (*A.* 329, 370 *C.* 1904 [1] 516).
 5) Nitrosat d. 1-Methyl-2-Tetrahydrobenzol. Sm. 103–104° (*C.* 1903 [1] 329).
 C 36,2 — H 5,2 — O 34,5 — N 24,1 — M. G. 232.
- $C_7H_{12}O_5N_4$ 1) Amid d. Carboxylamidoacetylamidooessigsäure (Diglycylglycincarbonsäure). Sm. 230–234° u. Zers. (*B.* 36, 2102 *C.* 1903 [1] 1304).

- $C_7H_{13}ON$ *5) 2-Oximido-1-Methylhexahydrobenzol. Sm. 43—44° (A. 329, 376 C. 1904 [1] 517).
 *6) d-3-Oximido-1-Methylhexahydrobenzol. Sm. 43—44° (A. 332, 338 C. 1904 [2] 653).
- $C_7H_{13}ON_3$ *2) 2-Semicarbazon-1-Methyl-R-Pentamethylen. Sd. 174—176° (A. 331, 322 C. 1904 [1] 1567).
- $C_7H_{13}OCl$ *8) Verbindung (aus Mesityloxyd). Sm. 129° (B. 36, 4379 C. 1904 [1] 454).
 9) 4-Chlor-3-Oxy-1-Methylhexahydrobenzol. Sd. 205—206°₇₅₈ (C. 1903 [2] 289; 1904 [1] 1346).
- $C_7H_{13}OJ$ 2) Methyläther d. 2-Jod-1-Oxyhexahydrobenzol. Sd. 114°₄₉ (C. r. 135, 1056 C. 1903 [1] 233).
- $C_7H_{13}O_2N$ *28) Aethylester d. Tetrahydropyrrol-2-Carbonsäure. Sd. 85°₂₃ (A. 326, 108 C. 1903 [1] 842).
 *29) γ -Oximido- δ -Ketoheptan. Sd. 107—108°₁₀ (Bl. [3] 31, 1165 C. 1904 [2] 1700).
 *31) 2-Hexahydropyridlessigsäure. Sm. 214°. HCl, (HCl, AuCl₃) (B. 36, 2905 C. 1903 [2] 889).
 33) 2-Methyl-2-Acetonyltetrahydrooxazol. Sm. 73° (B. 36, 1282 C. 1903 [1] 1216).
 34) Gem. Imid d. Propionsäure u. Buttersäure. Sm. 109° (C. r. 137, 326 C. 1903 [2] 712).
 35) Gem. Imid d. Propionsäure u. Isobuttersäure. Sm. 140° (C. r. 137, 326 C. 1903 [2] 712).
- $C_7H_{13}O_2N_3$ 4) Dipropionylguanidin. Sm. 85—86° (Ar. 241, 470 C. 1903 [2] 988).
- $C_7H_{13}O_2Br$ *17) Aethylester d. α -Brom- β -Methylpropan- β -Carbonsäure. Sd. 89—90°₂₅ (Bl. [3] 31, 158 C. 1904 [1] 869).
 18) Aethylester d. β -Brombutan- β -Carbonsäure. Sd. 75°₁₈ (Bl. [3] 31, 319 C. 1904 [1] 1133).
- $C_7H_{13}O_3N$ *2) δ -Oximido- β -Methylpentan- β -Carbonsäure. Sm. 93—94° (Soc. 85, 1220 C. 1904 [2] 1109).
 *10) Aethylester d. α -Oximidoisovaleriansäure. Sm. 56°; Sd. 129°₁₃ (Bl. [3] 31, 1071 C. 1904 [2] 1457).
 13) ϵ -Oximido- β -Methylpentan- ϵ -Carbonsäure. Sm. 163—164° u. Zers. Na, Ag (Bl. [3] 31, 1074 C. 1904 [2] 1458).
 14) Aethylester d. α -Oximidovaleriansäure. Sm. 48°; Sd. 144—145°₁₆ (Bl. [3] 31, 1072 C. 1904 [2] 1457).
- $C_7H_{13}O_3N_3$ 8) δ -Semicarbazon- β -Methylbutan- δ -Carbonsäure. Sm. 205° (Bl. [3] 31, 1152 C. 1904 [2] 1707).
 9) Propylaster d. α -Semicarbazonpropionsäure. Sm. 178° (Am. 28, 397 C. 1903 [1] 90).
 10) Isobutylester d. Semicarbazonessigsäure. Sm. 214—215° (Bl. [3] 31, 681 C. 1904 [2] 195).
- $C_7H_{13}O_4N$ *5) Diäthylester d. Amidomethancarbonsäure-N-Carbonsäure (Carbäthoxylglycinäthylester). Sm. 27—28°; Sd. 135°₁₆ (B. 36, 2107 C. 1903 [2] 345).
 8) Aethylester d. α -Nitrovaleriansäure. Sd. 130°₃₀ (C. 1904 [2] 1601).
- $C_7H_{13}O_4N_3$ 4) α -Amidopropionylamidacetylamidoessigsäure. Sm. 214° u. Zers. (B. 36, 2987 C. 1903 [2] 1112).
- $C_7H_{14}ON_2$ *9) β -Butyrylhydrazonpropan. Sm. 82° (J. pr. [2] 69, 487 C. 1904 [2] 599).
 11) β -Isobutyrylhydrazonpropan. Sm. 90—91° (J. pr. [2] 69, 498 C. 1904 [2] 600).
 12) Methylamid d. 1-Methyltetrahydropyrrol-2-Carbonsäure. Sm. 44 bis 46°. (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (A. 326, 118 C. 1903 [1] 843).
- $C_7H_{14}O_2N_2$ *2) γ - δ -Dioximidoheptan. Sm. 167—168° (Bl. [3] 31, 1175 C. 1904 [2] 1701).
 *5) $\alpha\gamma$ -Di[Acetylamido]propan. Sm. 101° (B. 36, 336 C. 1903 [1] 703).
 18) $\alpha\alpha$ -Di[Acetylamido]propan. Sm. 188° (M. 25, 939 C. 1904 [2] 1598).
 19) Diäthylacetylharnstoff. Sm. 207,5° (C. 1903 [1] 1155; A. 335, 365 C. 1904 [2] 382).
 20) 3-Nitroso-4,4,6-Trimethyltetrahydro-1,3-Oxazin. Sd. 129—131°₂₂₋₂₄ (M. 25, 830 C. 1904 [2] 1239).
 21) Ureid d. Diäthyllessigsäure (Diäthylacetylharnstoff). Sm. 207,5° (D. R. P. 144431 C. 1903 [2] 813).

- $C_7H_{14}O_2Cl_2$ 2) Aethylpropyläther d. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. Sd. 202—204° (G. 33 [2] 418 C. 1904 [1] 922).
- $C_7H_{14}O_4N_4$ *1) Aethylster d. $\alpha\alpha$ -Diureidopropionsäure. Zers. bei 200° (C. r. 138, 372 C. 1904 [1] 791).
- *9) Diäthylester d. Methylenl[Amidoameisensäure]. Sm. 131° (B. 36, 2206 C. 1903 [2] 423).
- $C_7H_{14}O_5N_2$ C 40,8 — H 6,8 — O 38,8 — N 13,6 — M. G. 206.
- 1) β -Hydroxylamid d. Diäthylhydroxylamin- $\beta\beta$ -Dicarbonsäure- β' -Methylester. Sm. 124° (B. 37, 255 C. 1904 [1] 642).
- $C_7H_{14}O_6N_2$ *1) Glykoseureid. Sm. 207° u. Zers. (R. 22, 38 C. 1903 [1] 1079).
- $C_7H_{14}NCl$ 5) 2-[β -Chloräthyl]hexahydropyridin. Fl. HCl, (HCl, $AuCl_3$) (B. 37, 1886 C. 1904 [2] 238).
- $C_7H_{14}NBr$ 4) 2-[β -Bromäthyl]hexahydropyridin. Fl. HCl, (HCl, $AuCl_3$) (B. 37, 1884 C. 1904 [2] 238).
- $C_7H_{14}NJ$ 3) 2-[β -Jodäthyl]hexahydropyridin. HJ (B. 37, 1886 C. 1904 [2] 238).
- $C_7H_{15}ON$ *6) β -Methylamido- δ -Keto- β -Methylpentan. (2HCl, $PtCl_4$) (M. 24, 776 C. 1904 [1] 158).
- *15) Amid d. Hexan- α -Carbonsäure. Sm. 94,5° (B. 36, 2550 C. 1903 [2] 654).
- 24) 4,4,6-Trimethyltetrahydro-1,3-Oxazin. Sd. 149—152°. (2HCl, $PtCl_4$), (HCl, $AuCl_3$), Pikrat (M. 25, 827 C. 1904 [2] 1239).
- 25) Amid d. $\beta\beta$ -Dimethylbutan- δ -Carbonsäure. Sm. 140—141° (C. r. 136, 554 C. 1903 [1] 825).
- 26) Diäthylamid d. Propionsäure. Sd. 191° (B. 36, 2287 C. 1903 [2] 563).
- 27) Isoamylamid d. Essigsäure. Sd. 230—232° (Am. 29, 311 C. 1903 [1] 1166).
- 28) Dipropylamid d. Ameisensäure. Sd. 202—204° (B. 36, 2287 C. 1903 [2] 563; B. 36, 2476 C. 1903 [2] 559).
- $C_7H_{15}ON_3$ *3) β -Semicarbazonhexan. Sm. 127° (Bl. [3] 31, 1157 C. 1904 [2] 1707).
- *5) δ -Semicarbazon- β -Methylpentan. Sm. 132—133° u. Zers. (C. 1903 [1] 225).
- 6) γ -Semicarbazonmethylpentan. Sm. 93—94° (Bl. [3] 31, 306 C. 1904 [1] 1133).
- $C_7H_{15}O_2N$ *16) Aethylester d. Isobutylamidoameisensäure. Sd. 95—96°₁₅ (B. 36, 2476 C. 1903 [2] 559).
- *34) Betain d. Methyl-diäthylamidoessigsäure. HCl, Pikrat (B. 36, 4190 C. 1904 [1] 263).
- 42) β -Diäthylamidopropionsäure. Sm. 70—71° (J. pr. [2] 68, 350 C. 1903 [2] 1318).
- 43) Aethylester d. Diäthylamidoameisensäure. Sd. 167° (169—172°) (B. 36, 2287 C. 1903 [2] 563; B. 36, 2477 C. 1903 [2] 559; Bl. [3] 31, 690 C. 1904 [2] 198).
- 44) Acetat d. Diäthylamidooxymethan. Sd. 81—82°_{14,5} (B. 37, 4088 C. 1904 [2] 1724).
- $C_7H_{15}O_2Br$ 2) Diäthyläther d. γ -Brom- $\alpha\alpha$ -Dioxypropan. Sd. 80—90°₂₀ (A. 335, 263 C. 1904 [2] 1283).
- $C_7H_{15}O_3N$ 7) ϵ -Oximido- $\alpha\gamma$ -Dioxy- $\beta\beta$ -Dimethylpentan. Fl. (M. 25, 1066 C. 1904 [2] 1599).
- $C_7H_{15}O_3N_3$ 3) Aethylester d. α -Semicarbazidoisobuttersäure. Sm. 97° (Am. 28, 402 C. 1903 [1] 90).
- 4) Propylester d. α -Semicarbazidopropionsäure. Sm. 89° (Am. 28, 397 C. 1903 [1] 90).
- $C_7H_{15}O_5N_3$ C 38,0 — H 6,8 — O 36,2 — N 19,0 — M. G. 221.
- 1) Semicarbazon d. Rhamnose + $\frac{1}{2}H_2O$. Sm. 183° (Bl. [3] 31, 1077 C. 1904 [2] 1492; C. 1904 [2] 1494).
- $C_7H_{15}O_6N_3$ *1) Semicarbazon d. d-Glykose + $2H_2O$. Sm. 197—198° u. Zers. (Bl. [3] 31, 1077 C. 1904 [2] 1492).
- 2) Semicarbazon d. d-Galaktose. Sm. 200—202° (Zers. bei 186—189°) (Bl. [3] 31, 1078 C. 1904 [2] 1493; C. 1904 [2] 1494).
- 3) Semicarbazon d. d-Mannose + $\frac{1}{2}H_2O$. Sm. 117° (wasserfrei) (Bl. [3] 31, 1077 C. 1904 [2] 1493; C. 1904 [2] 1493).
- 4) Verbindung (aus Guadin). + C_5H_9O (C. 1904 [2] 1210).
- $C_7H_{15}O_7N$ *2) α -2-Amido-d-Glykoheptonsäure (Galaheptosaminsäure) (B. 36, 620 C. 1903 [1] 766).

- $C_7H_{15}O_7N$ 3) β -2-Amido-d-Glykoheptonsäure. Cu (B. 36, 619 C. 1903 [1] 766).
 4) Amidoglykoheptonsäure. Brucinsalz (B. 35, 4018 C. 1903 [1] 391).
- $C_7H_{15}N_2Cl$ *1) Nitril d. Methylidiäthylchlorammoniumessigsäure. Sm. 186° (B. 37, 4089 C. 1904 [2] 1724).
- $C_7H_{15}N_2J$ *2) Nitril d. Methylidiäthyljodammoniumessigsäure. Sm. 190—191° (186°) (B. 36, 4189 C. 1904 [1] 262; B. 37, 4089 C. 1904 [2] 1724).
- $C_7H_{15}N_4J$ *1) Jodmethylat d. Hexamethylentetramin. Sm. 204° (A. 334, 231 C. 1904 [2] 900).
- $C_7H_{16}ON_2$ *16) Nitril d. Methylidiäthylammoniumhydroxydessigsäure. Jodid, Pikrat (B. 36, 4189 C. 1904 [1] 262).
 17) α -Aethyl- β -[d-sec. Butyl]harnstoff. Sm. 92° (Ar. 242, 70 C. 1904 [1] 999).
 18) δ -Oximido- β -Methylamido- β -Methylpentan. Sm. 57—59°. Oxalat (M. 24, 777 C. 1904 [1] 158).
 C 48,8 — H 9,3 — O 9,3 — N 32,6 — M. G. 172.
- $C_7H_{16}ON_4$ 1) Methylhydroxyd d. Hexamethylentetramin. Salze siehe (B. 19, 1843; A. 334, 231 C. 1904 [2] 900). — I, 1168.
- $C_7H_{16}O_2N_2$ 2) Äthylester d. $\gamma\delta$ -Diamidovaleriansäure. (2HCl, PtCl₄) (C. 1904 [1] 259).
- $C_7H_{16}O_3S$ *1) Heptan- α -Sulfonsäure. Ba (C. 1903 [1] 961).
 $C_7H_{16}O_4S$ 1) Äthylisoamylester d. Schwefelsäure. Sd. 127—128°₁₅ (Am. 30, 219 C. 1903 [2] 937).
- $C_7H_{16}O_6N_2$ 3) isom. $\beta\gamma\delta\epsilon\zeta$ -Pentaoxyhexylharnstoff (Mannaminharnstoff). Sm. 97—98° (C. r. 138, 505 C. 1904 [1] 872).
- $C_7H_{16}O_6S_2$ 2) Diäthylester d. Propan- $\alpha\gamma$ -Disulfonsäure. Fl. (B. 37, 3808 C. 1904 [2] 1564).
- $C_7H_{16}N_2S$ 9) α -Äthyl- β -[d-sec. Butyl]thioharnstoff. Sm. 67° (Ar. 242, 59 C. 1904 [1] 998).
 10) $\alpha\alpha$ -Dimethyl- β -[d-sec. Butyl]thioharnstoff. Sm. 54° (Ar. 242, 59 C. 1904 [1] 998).
- $C_7H_{17}ON$ 17) β -Methylamido- δ -Oxy- β -Methylpentan. Sd. 184—186°₇₅₀. (2HCl, PtCl₄) (M. 25, 137 C. 1904 [1] 866).
- 18) α -Dimethylamido- β -Oxy- β -Methylbutan. Sd. 57°₂₃ (C. r. 138, 767 C. 1904 [1] 1196).
 C 52,8 — H 10,7 — O 10,1 — N 26,4 — M. G. 159.
- $C_7H_{17}ON_3$ 1) α -Oximido- α -Amido- α -Dipropylamidomethan. Sm. 115°. Pikrat (B. 36, 3661 C. 1903 [2] 1325).
- $C_7H_{17}O_4P$ *3) Diäthylester d. α -Oxyisopropylphosphinsäure. Sm. 14—15°; Sd. 145°₂₀ u. Zers. (C. 1904 [2] 1708).
- $C_7H_{17}ClS$ *1) Methylpropylsulfinchlorid. + 2½ HgCl₂ (J. pr. [2] 66, 460 C. 1903 [1] 561).
 *2) Methylidiisopropylsulfinchlorid. + HgCl₂ (J. pr. [2] 66, 461 C. 1903 [1] 561).
 *3) Methyläthylisobutylsulfinchlorid (J. pr. [2] 66, 457 C. 1903 [1] 561).
 *4) Methyläthylbutylsulfinchlorid. + 6 HgCl₂ (J. pr. [2] 66, 457 C. 1903 [1] 561).
 *5) Methyläthyl-sec. Butylsulfinchlorid. + 2 (6) HgCl₂ (J. pr. [2] 66, 458 C. 1903 [1] 561).
 6) Methylpropylisopropylsulfinchlorid. + 6 HgCl₂ (J. pr. [2] 66, 461 C. 1903 [1] 561).
- $C_7H_{18}N_3J$ 1) Jodmethylat d. 1,3,5-Trimethylhexahydro-1,3,5-Triazin (A. 334, 227 C. 1904 [2] 899).

- $C_7HO_3NCl_4$ 1) Chlorid d. 2,4,6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 96° (R. 21, 388 C. 1903 [1] 152).
- $C_7H_2O_4NCl_3$ *1) 2,4,5-Trichlor-*p*-Nitrobenzol-1-Carbonsäure (R. 21, 380 C. 1903 [1] 152).
 3) 2,4,6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 169,25° (R. 21, 387 C. 1903 [1] 152).
- $C_7H_2O_6N_4S$ 1) 2,4,6-Trinitro-1-Rhodanbenzol. Zers. bei 285° (Soc. 85, 649 C. 1904 [2] 310).

- $C_7H_2O_7N_3Cl$ *1) Chlorid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 163° (*R.* 21, 381 *C.* 1903 [1] 152).
- $C_7H_3ONCl_2$ 3) Nitril d. 3,5-Dichlor-2-Oxybenzol-1-Carbonsäure. Sm. 139° (*B.* 37, 4030 *C.* 1904 [2] 1718).
- $C_7H_3OCl_2Br$ 1) Chlorid d. 2-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 41—42°; Sd. 150—152°₂₅ (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- 2) Chlorid d. 2-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 35—36°; Sd. 152—153°₂₅ (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- 3) Chlorid d. 2-Chlor-5-Brombenzol-1-Carbonsäure. Sd. 147°₁₀ (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- 4) Chlorid d. 2-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 30°; Sd. 145—147°₂₄ (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- 5) Chlorid d. 3-Chlor-2-Brombenzol-1-Carbonsäure. Sm. 40—41°; Sd. 144—146°₂₂ (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- 6) Chlorid d. 3-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 58—59°; (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- 7) Chlorid d. 3-Chlor-5-Brombenzol-1-Carbonsäure. Sm. 33—34°; (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- 8) Chlorid d. 3-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 34—35°; Sd. 146—147°₂₅ (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- 9) Chlorid d. 4-Chlor-2-Brombenzol-1-Carbonsäure. Sm. 32—33°; Sd. 155—156°₂₉ (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- 10) Chlorid d. 4-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 37—38°; (*Soc.* 85, 1263 *C.* 1904 [2] 1302).
- $C_7H_3O_2NCl_2$ *4) Chlorid d. Pyridin-2,6-Dicarbonsäure. Sm. 61° (*M.* 24, 206 *C.* 1903 [2] 48).
- $C_7H_3O_2NCl_4$ 4) 3,4,5,6-Tetrachlor-2-Nitro-1-Methylbenzol. Sm. 86—88° (*Soc.* 85, 1280 *C.* 1904 [2] 1293).
- 5) 2,4,5,6-Tetrachlor-3-Nitro-1-Methylbenzol. Sm. 131—134° (*Soc.* 85, 1280 *C.* 1904 [2] 1293).
- 6) 2,3,5,6-Tetrachlor-4-Nitro-1-Methylbenzol. Sm. 150—152° (*Soc.* 85, 1282 *C.* 1904 [2] 1293).
- 7) 3,4,5-Trichlor-2-Nitro-1-Chlormethylbenzol? Sm. 159° (*Soc.* 85, 1285 *C.* 1904 [2] 1293).
- $C_7H_3O_3NCl_4$ 1) 2,3,5,6-Tetrachlor-1-Nitro-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 90° u. Zers. (*A.* 328, 293 *C.* 1903 [2] 1248).
- $C_7H_3O_3N_2Cl_3$ 1) Amid d. 2,4,6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 228,5° (*R.* 21, 389 *C.* 1903 [1] 152).
- $C_7H_3O_3N_2Cl$ *3) Chlorid d. 3,5-Dinitrobenzol-1-Carbonsäure. Sm. 74° (*J. pr.* [2] 69, 455 *C.* 1904 [2] 594).
- $C_7H_3O_3N_3Cl_2$ 1) 3,5-Dichlor-2,4,6-Trinitro-1-Methylbenzol. Sm. 200—201° (*Am.* 32, 178 *C.* 1904 [2] 951).
- $C_7H_3O_3N_3Br_2$ *1) 3,5-Dibrom-2,4,6-Trinitro-1-Methylbenzol. Sm. 229—230° (*R.* 23, 127 *C.* 1904 [2] 200).
- $C_7H_3O_3N_2Br$ 1) 2-Brom-4,6-Dinitro-3-Oxybenzol-1-Carbonsäure? Sm. 217—218° (*Soc.* 81, 1484 *C.* 1903 [1] 23, 144).
- C_7H_3NClBr 1) Nitril d. 2-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 51—61° (*Am.* 30, 516 *C.* 1904 [1] 371).
- C_7H_4ONCl 5) Nitril d. 5-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 165—167° (*B.* 37, 4026 *C.* 1904 [2] 1718).
- 6) Nitril d. 3-Chlor-4-Oxybenzol-1-Carbonsäure. Sm. 155° (*B.* 37, 4034 *C.* 1904 [2] 1719).
- $C_7H_4ONCl_3$ *2) Amid d. 2,4,6-Trichlorbenzol-1-Carbonsäure. Sm. 181° (*R.* 21, 386 *C.* 1903 [1] 152).
- C_7H_4OClJ *1) Chlorid d. 2-Jodbenzol-1-Carbonsäure. Sm. 30—31°; Sd. 159°₂₇ (*Soc.* 85, 1272 *C.* 1904 [2] 1303).
- *2) Chlorid d. 4-Jodbenzol-1-Carbonsäure. Sm. 71—72°; Sd. 163 bis 164°₃₂ (*Soc.* 85, 1274 *C.* 1904 [2] 1303).
- 3) Chlorid d. 3-Jodbenzol-1-Carbonsäure. Sd. 159—160°₂₃ (*Soc.* 85, 1273 *C.* 1904 [2] 1303).
- $C_7H_4O_2NCl$ 2) 4-Chlor-1-Keto-1,2-Dihydrobenzoxazol. Sm. 184—185° (*Am.* 32, 26 *C.* 1904 [2] 696).
- $C_7H_4O_2NCl_3$ 12) 2,3,5-Trichlorpyridin-4-Methylcarbonsäure. Sm. 144—145°. Ca, Ba, Ag (*Soc.* 83, 399 *C.* 1903 [1] 841, 1141).

- $C_7H_4O_2NBr_3$ *6) 2, 4, 6-Tribrom-3-Amidobenzol-1'-Carbonsäure. Salze siehe (Soc. 85, 239 C. 1904 [1] 1006).
- $C_7H_4O_2ClBr$ 9) 2-Tribrom-3-Amidobenzol-1-Carbonsäure. Sm. 154—156° (C. 1904 [2] 104).
- *3) 2-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 166—167° (Soc. 85, 1266 C. 1904 [2] 1302).
- *4) 2-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 143—144° (Soc. 85, 1268 C. 1904 [2] 1302).
- *5) 3-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 218° (Soc. 85, 1269 C. 1904 [2] 1302).
- *6) 4-Chlor-2-Brombenzol-1-Carbonsäure. Sm. 154—155° (Soc. 85, 1267 C. 1904 [2] 1302).
- 7) 2-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 165° (Soc. 85, 1266 C. 1904 [2] 1302).
- 8) 2-Chlor-5-Brombenzol-1-Carbonsäure. Sm. 155—156° (Soc. 85, 1267 C. 1904 [2] 1302).
- 9) 3-Chlor-2-Brombenzol-1-Carbonsäure. Sm. 143—144° (Soc. 85, 1266 C. 1904 [2] 1302).
- 10) 3-Chlor-5-Brombenzol-1-Carbonsäure. Sm. 189—190° (Soc. 85, 1269 C. 1904 [2] 1302).
- 11) 3-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 148—149° (Soc. 85, 1267 C. 1904 [2] 1302).
- 12) 4-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 214° (Soc. 85, 1269 C. 1904 [2] 1302).
- $C_7H_4O_3NCl$ *3) Aldehyd d. 6-Chlor-3-Nitrobenzol-1-Carbonsäure. Sm. 80° (D.R.P. 102745; M. 25, 366 C. 1904 [2] 322).
- 9) 4-Chlor-2-Nitrosobenzol-1-Carbonsäure (B. 36, 3302 C. 1903 [2] 1173).
- 10) Aldehyd d. 4-Chlor-2-Nitrobenzol-1-Carbonsäure. Sm. 67—68° (D.R.P. 128727 C. 1902 [1] 552; B. 36, 3300 C. 1903 [2] 1173; D.R.P. 149748, 149749 C. 1904 [1] 909). — *III, II.
- $C_7H_4O_3NCl_3$ 3) 2, 3, 5-Trichlor-1-Nitro-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 70° u. Zers. (A. 328, 291 C. 1903 [2] 1248).
- $C_7H_4O_3NBr$ 3) 4-Brom-2-Nitrosobenzol-1-Carbonsäure. Sm. 222—225° (B. 37, 1872 C. 1904 [1] 1601).
- 4) Aldehyd d. 4-Brom-2-Nitrobenzol-1-Carbonsäure. Sm. 97—98° (B. 36, 3302 C. 1903 [2] 1173; D.R.P. 149748, 149749 C. 1904 [1] 909; B. 37, 1867 C. 1904 [1] 1601).
- $C_7H_4O_3NBr_3$ 4) Methyläther d. 4,5,6-Tribrom-2-Nitro-1-Oxybenzol. Sm. 109 bis 110° (Am. 30, 68 C. 1903 [2] 355).
- $C_7H_4O_3NJ$ 1) Aldehyd d. 4-Jod-2-Nitrobenzol-1-Carbonsäure. Sm. 110—111° (B. 36, 3303 C. 1903 [2] 1173; D.R.P. 149749 C. 1904 [1] 909).
- $C_7H_4O_3NJ_3$ 1) Methyläther d. 2,4,6-Trijod-3-Nitro-1-Oxybenzol. Sm. 128° (Am. 32, 302 C. 1904 [2] 1385).
- $C_7H_4O_3Cl_2S$ *1) stab. Chlorid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 79° (Am. 30, 247 C. 1903 [2] 1118).
- *2) lab. Chlorid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 40° (Am. 30, 247 C. 1903 [2] 1118).
- $C_7H_4O_4NCl$ *1) 3-Chlor-2-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
- *3) 5-Chlor-2-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
- *5) 4-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
- *7) 6-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
- *13) 2-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
- 14) 2-Chlor-3-Nitro-2-Methyl-1,4-Benzochinon. Sm. 70—71° (Soc. 85, 528 C. 1904 [1] 1256, 1490).
- 15) 3-Chlor-5-Nitro-2-Methyl-1,4-Benzochinon (oder 5-Chlor-3-Nitro-2-Methyl-1,4-Benzochinon). Sm. 128° (A. 328, 314 C. 1903 [2] 1246).
- $C_7H_4O_4NBr$ *3) 5-Brom-2-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
- 13) Aldehyd d. 5-Brom-3-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 147—148° (B. 37, 3935 C. 1904 [2] 1596).
- $C_7H_4O_4N_2Br_2$ 7) 3,5-Dibrom-2,4-Dinitro-1-Methylbenzol. Sm. 157° (R. 21, 126 C. 1904 [2] 200).
- $C_7H_4O_4NBr$ *2) 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 222° (G. 34 [1] 274 C. 1904 [1] 1499).

- $C_7H_4O_3N_3Cl$ 1) 3-Chlor-2,4,6-Trinitro-1-Methylbenzol. Sm. 148,5° (*B.* 37, 2094 *C.* 1904 [2] 34).
- $C_7H_4O_3N_4Cl_2$ 1) 4,5-Dichlor-2,6-Dinitro-1-Methylnitramidobenzol. Sm. 121° (*R.* 21, 420 *C.* 1903 [1] 504).
- $C_7H_4O_3N_3Br_2$ 1) 4,5-Dibrom-2,6-Dinitro-1-Methylnitramidobenzol. Sm. 140° (*R.* 21, 415 *C.* 1903 [1] 505).
- $C_7H_4O_7N_3Cl$ 1) Methyläther d. 3-Chlor-2,4,6-Trinitro-1-Oxybenzol. Sm. 88° (*R.* 21, 323 *C.* 1903 [1] 79).
- $C_7H_4O_7N_3Br$ 1) Methyläther d. 3-Brom-2,4,6-Trinitro-1-Oxybenzol. Sm. 97° (*R.* 23, 121 *C.* 1904 [2] 206).
- $C_7H_4O_3N_2S$ 1) 3,5-Dinitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. oberh. 300° (*G.* 33 [2] 334 *C.* 1904 [1] 278).
- $C_7H_5O_2NCl_2$ 17) 3,5-Dichlor-2-Oxybenzaloxim. Sm. 195—196° (*B.* 37, 4029 *C.* 1904 [2] 1718).
- $C_7H_5O_2NBr_2$ *16) 4,5-Dibrom-2-Amidobenzol-1-Carbonsäure. Sm. 227° (*J. pr.* [2] 69, 36 *C.* 1904 [1] 641).
- *17) 3,5-Dibrom-2-Amidobenzol-1-Carbonsäure. Ba + $3\frac{1}{2}H_2O$ (*C.* 1903 [2] 1194).
- $C_7H_5O_3N_2Cl$ *2) Diazobenzolehlorid-4-Carbonsäure (*A.* 325, 302 *C.* 1903 [1] 704).
- $C_7H_5O_3N_2Br_3$ 3) Diazobenzolehlorid-3-Carbonsäure (*A.* 325, 302 *C.* 1903 [1] 704).
- 3) 4,5,6-Tribrom-2-Nitro-1-Methylamidobenzol. Sm. 128° (*R.* 21, 415 *C.* 1903 [1] 505).
- $C_7H_5O_3N_3Br_2$ 1) Amid d. 3,5-Dibrom-4-Oxyphenylazoameisensäure. Zers. bei 225° (*A.* 334, 174 *C.* 1904 [2] 534).
- $C_7H_5O_2N_4Cl_3$ 1) 2,6-Diketo-8-Trichlormethyl-3-Methylpurin. Zers. oberh. 300° (*D.R.P.* 153121 *C.* 1904 [2] 625).
- $C_7H_5O_3NCl_2$ 3) Methyläther d. 4,5-Dichlor-2-Nitro-1-Oxybenzol. Sm. 86° (*R.* 21, 421 *C.* 1903 [1] 504).
- 4) 3,5-Dichlor-1-Nitro-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 74—76° u. Zers. (*A.* 328, 289 *C.* 1903 [2] 1248).
- $C_7H_5O_3NBr_2$ *7) Methyläther d. 2,6-Dibrom-4-Nitro-1-Oxybenzol. Sm. 122,6° (*Am.* 30, 59 *C.* 1903 [2] 354).
- $C_7H_5O_3NS$ *1) 2-Cyanbenzol-1-Sulfonsäure. NH_3 , K (*Am.* 30, 263 *C.* 1903 [2] 1119; *Am.* 30, 371 *C.* 1904 [1] 277).
- 6) Phenylsulfonisocycansäure. Sd. 129°. HJ (*B.* 36, 3214 *C.* 1903 [2] 1055; *B.* 37, 690 *C.* 1904 [1] 1074).
- $C_7H_5O_3N_2Cl$ *2) 6-Chlor-3-Nitrobenzaloxim. Sm. 146—147° (*M.* 25, 367 *C.* 1904 [2] 322).
- *12) Amid d. 4-Chlor-3-Nitrobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
- *13) Amid d. 6-Chlor-3-Nitrobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
- 14) 4-Chlor-2-Nitrobenzaloxim. Sm. 172° (*B.* 37, 1865 *C.* 1904 [1] 1600).
- 15) Chloramid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 183—184° u. Zers. (*Am.* 30, 402 *C.* 1904 [1] 238).
- $C_7H_5O_3N_2Br$ 9) 4-Brom-2-Nitrobenzaloxim. Sm. 164° (*B.* 37, 1868 *C.* 1904 [1] 1601).
- $C_7H_5O_3ClH_2g$ 1) Chlormerkurosalicylsäure. Na, K, Li, Ca (*G.* 32 [2] 308 *C.* 1903 [1] 579).
- $C_7H_5O_3Cl_2S$ 4) 2,4,5-Trichlorphenylmethan- α -Sulfonsäure (*D.R.P.* 146946 *C.* 1904 [1] 66).
- $C_7H_5O_3BrH_2g$ 1) Brommerkurosalicylsäure (*G.* 32 [2] 310 *C.* 1903 [1] 579).
- $C_7H_5O_3JH_2g$ 1) Jodmerkurosalicylsäure (*G.* 32 [2] 310 *C.* 1903 [1] 579).
- $C_7H_5O_3N_2Cl$ *5) 2,4-Dinitro-1-Chlormethylbenzol. Sm. 33—34° (*B.* 37, 3599 *C.* 1904 [2] 1500).
- $C_7H_5O_4ClS$ *2) 3-Chlorid d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. 133—134° (*M.* 23, 1117 *C.* 1903 [1] 396).
- 3) Aldehyd d. 4-Chlorbenzol-1-Carbonsäure-2-Sulfonsäure (*D.R.P.* 117540 *C.* 1901 [1] 430). — *III, 16.
- 4) Aldehyd d. 5-Chlorbenzol-1-Carbonsäure-2-Sulfonsäure (*D.R.P.* 91818). — *III, 16.
- $C_7H_5O_3N_2Cl$ 3) Methyläther d. 5-Chlor-2,4-Dinitro-1-Oxybenzol. Sm. 105° (*R.* 23, 122 *C.* 1904 [2] 206).
- $C_7H_5O_3N_2Br$ 5) Methyläther d. 5-Brom-2,4-Dinitro-1-Oxybenzol. Sm. 110° (*R.* 23, 120 *C.* 1904 [2] 206).

- $C_7H_5O_6NS$ 3) Aldehyd d. 3-Nitrobenzol-1-Carbonsäure-6-Sulfonsäure (D.R.P. 94 504, 102745). — *III, 16.
- $C_7H_5O_7NS$ *1) 2-Nitrobenzol-1-Carbonsäure-4-Sulfonsäure (M. 23, 1138 C. 1903 [1] 397).
- $C_7H_5N_2BrS$ *2) 2-Brom-1-Amidobenzthiazol. Sm. 209—211° (B. 36, 3135 C. 1903 [2] 1071).
- C_7H_6ONCl *6) Amid d. 2-Chlorbenzol-1-Carbonsäure (C. 1903 [2] 1173).
- *7) Amid d. 3-Chlorbenzol-1-Carbonsäure. Sm. 134° (J. pr. [2] 67, 498 C. 1903 [2] 251).
- *11) Phenylchloramid d. Essigsäure. Sm. 44° (Am. 29, 304 C. 1903 [1] 1166).
- *12) 4-Chlorphenylamid d. Ameisensäure. Sm. 101° (Am. 29, 304 C. 1903 [1] 1166).
- 14) Aldehyd d. 4-Chlor-2-Amidobenzol-1-Carbonsäure. Sm. 86° (B. 37, 1873 C. 1904 [1] 1601).
- 15) Aldehyd d. 2-Chlor-4-Amidobenzol-1-Carbonsäure. Sm. 147° (D.R.P. 86874). — *III, 13.
- C_7H_6ONBr *10) Phenylbromamid d. Ameisensäure. Sm. 79—80° (Am. 29, 304 C. 1903 [1] 1166).
- $C_7H_6ON_2Br_2$ 5) 2,6-Dibrom-4-Methyl-1-Diazobenzol. Sulfat (Soc. 83, 811 C. 1903 [2] 426).
- $C_7H_6O_2NCl$ *2) 6-Chlor-2-Nitro-1-Methylbenzol. Sm. 37,5° (B. 37, 1018 C. 1904 [1] 1202).
- *7) 2-Chlor-4-Nitro-1-Methylbenzol. Sm. 65° (Soc. 85, 1436 C. 1904 [2] 1740).
- *10) 4-Nitro-1-Chlormethylbenzol. + $AlCl_3$ (C. 1903 [1] 147; R. 23, 103 C. 1904 [1] 1136).
- *17) 5-Chlor-2-Oxybenzaloxim. Sm. 122° (B. 37, 4025 C. 1904 [2] 1717).
- *23) 6-Chlor-3-Amidobenzol-1-Carbonsäure (C. 1903 [2] 1174).
- *29) Amid d. 5-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 226—227° (B. 37, 4026 C. 1904 [2] 1718).
- 35) 6-Chlor-2-Imido-4-Oxy-1-Keto-5-Methyl-1,2-Dihydrobenzol? (A. 328, 318 C. 1903 [2] 1247).
- 36) 3-Chlor-4-Oxybenzaloxim. Sm. 144—145° (B. 37, 4034 C. 1904 [2] 1719).
- 37) Amid d. 3-Chlor-4-Oxybenzol-1-Carbonsäure. Sm. 181—182° (B. 37, 4035 C. 1904 [2] 1719).
- $C_7H_6O_2NBr$ 24) 6-Brom-2-Nitro-1-Methylbenzol. Sm. 41° (B. 37, 1021 C. 1904 [1] 1203).
- $C_7H_6O_2NJ$ 12) 6-Jod-2-Nitro-1-Methylbenzol. Sm. 35,5° (B. 37, 1024 C. 1904 [1] 1203).
- $C_7H_6O_2N_2Cl_2$ 1) 4,5-Dichlor-2-Nitro-1-Methylamidobenzol. Sm. 148° (R. 21, 420 C. 1903 [1] 504).
- $C_7H_6O_2N_2Br_2$ 10) 4,5-Dibrom-2-Nitro-1-Methylamidobenzol. Sm. 165° (R. 21, 414 C. 1903 [1] 505).
- $C_7H_6O_3NCl$ *1) Methyläther d. 4-Chlor-2-Nitro-1-Oxybenzol. Sm. 98° (94—96°) (D.R.P. 137956 C. 1903 [1] 112; D.R.P. 140133 C. 1903 [1] 797; B. 36, 1689 C. 1903 [2] 111).
- *2) Methyläther d. 5-Chlor-2-Nitro-1-Oxybenzol. Sm. 71° (R. 21, 321 C. 1903 [1] 79).
- 14) 6-Chlor-3-Nitro-2-Oxy-Methylbenzol. Sm. 64,5° (B. 37, 1020 C. 1904 [1] 1202).
- 15) 6-Chlor-5-Nitro-2-Oxy-1-Methylbenzol. Sm. 135° (B. 37, 1020 C. 1904 [1] 1202).
- 16) 5-Chlor-3-Nitro-4-Oxy-1-Methylbenzol. Sm. 65°. Na (A. 328, 311 C. 1903 [2] 1246).
- 17) Methyl ester d. 5-Chlor-6-Oxypyridin-3-Carbonsäure. Sm. 218°. Na (B. 37, 3832 C. 1904 [2] 1614).
- $C_7H_6O_3NBr$ *7) Methyl ester d. 5-Brom-6-Oxypyridin-3-Carbonsäure. Sm. 221 bis 222° (B. 37, 3839 C. 1904 [2] 1615).
- 10) 6-Brom-3-Nitro-2-Oxy-1-Methylbenzol. Sm. 64° (B. 37, 1023 C. 1904 [1] 1203).

- $C_7H_6O_3NBr$ 11) 6-Brom-5-Nitro-2-Oxy-1-Methylbenzol. Sm. 145,5° (*B.* 37, 1023 *C.* 1904 [1] 1203).
 12) Methyläther d. 5-Brom-2-Nitro-1-Oxybenzol. Sm. 90° (*R.* 23, 119 *C.* 1904 [2] 206).
- $C_7H_6O_4Cl_2S$ 10) 2,4-Dichlorphenylmethan- α -Sulfonsäure. Na (D.R.P. 146946 *C.* 1904 [1] 66).
 11) 2,5-Dichlorphenylmethan- α -Sulfonsäure. Na + H_2O (D.R.P. 146946 *C.* 1904 [1] 66).
 12) 3,4-Dichlorphenylmethan- α -Sulfonsäure. Na (D.R.P. 146946 *C.* 1904 [1] 66).
- $C_7H_6O_4NCl$ 2) 4[oder 6]-Chlor-6[oder 4]-Nitro-2,5-Dioxy-1-Methylbenzol. Sm. 179—180° (*A.* 328, 316 *C.* 1903 [2] 1247).
- $C_7H_6O_4Cl_2S_2$ * 1) Chlorid d. 1-Methylbenzol-2,4-Disulfonsäure. Sm. 52° (*J. pr.* [2] 68, 331 *C.* 1903 [2] 1171).
- $C_7H_6O_4Br_2S_2$ 1) Bromid d. 1-Methylbenzol-2,4-Disulfonsäure. Sm. 78° (*J. pr.* [2] 68, 334 *C.* 1903 [2] 1172).
- $C_7H_6O_5N_2S$ 2) 2,6-Dinitro-1-Oxybenzolzomethyläther-4-Sulfonsäure (D. R. P. 148085 *C.* 1904 [1] 135).
- $C_7H_7ONBr_2$ * 5) Methyläther d. 2,6-Dibrom-4-Amido-1-Oxybenzol. Sm. 66° (64—65°) (*Soc.* 81, 1479 *C.* 1903 [1] 23, 144; *Am.* 30, 62 *C.* 1903 [2] 354).
- $C_7H_7ON_2Cl$ 10) Methyläther d. 2-Oxydiazobenzolchlorid (*A.* 325, 302 *C.* 1903 [1] 704).
 11) Hydrazid d. 4-Chlorbenzol-1-Carbonsäure. Sm. 163° (*C.* 1904 [2] 1493).
- $C_7H_7ON_2Br$ * 4) Methyläther d. 4-Bromdiazobenzol (*A.* 325, 245 *C.* 1903 [1] 632).
 * 8) Hydrazid d. 4-Brombenzol-1-Carbonsäure. Sm. 164° (*C.* 1904 [2] 1493).
- $C_7H_7ON_2Br_3$ 1) Methylamid d. 3,4,5-Tribrom-1-Methylpyrrol-2-Carbonsäure. Sm. 176° (*B.* 37, 2802 *C.* 1904 [2] 533).
- $C_7H_7ON_2J$ 1) 2-Jodphenylharnstoff. Sm. 197—198° (*M.* 25, 956 *C.* 1904 [2] 1638).
 2) 3-Jodphenylharnstoff. Sm. 174° (*M.* 25, 957 *C.* 1904 [2] 1638).
 3) 4-Jodphenylharnstoff. Sm. 288—300° (*M.* 25, 945 *C.* 1904 [2] 1637).
- $C_7H_7OJF_2$ * 1) 1-Methylbenzol-2-Jodofluorid. Sm. 120° (*A.* 328, 135 *C.* 1903 [2] 990).
 * 2) 1-Methylbenzol-4-Jodofluorid. Zers. bei 207° (*A.* 328, 136 *C.* 1903 [2] 990).
 3) 1-Methylbenzol-3-Jodofluorid. Sm. 178° (*A.* 328, 136 *C.* 1903 [2] 990).
- $C_7H_7O_3NBr_2$ 2) 4,6-Dibrom-2-Amido-3,5-Dioxy-1-Methylbenzol. HCl (*B.* 37, 1426 *C.* 1904 [1] 1418).
- $C_7H_7O_3N_2Br$ * 9) 4-Brom-1-Methylnitramidobenzol (*B.* 36, 2507 *C.* 1903 [2] 490).
- $C_7H_7O_3N_4Cl$ 7) 8-Chlor-2,6-Diketo-1,3-Dimethylpurin (D.R.P. 145880 *C.* 1903 [2] 1036).
- $C_7H_7O_2ClS$ * 2) Chlorid d. 1-Methylbenzol-2-Sulfonsäure (D.R.P. 142116 *C.* 1903 [2] 79).
- $C_7H_7O_3N_2Cl$ * 1) Methyläther d. 4-Chlor-5-Nitro-2-Amido-1-Oxybenzol. Sm. 132° (D.R.P. 137956 *C.* 1903 [1] 113; D.R.P. 153940 *C.* 1904 [2] 1014).
- $C_7H_7O_3N_2Br$ 2) Methyläther d. 3-Brom-1-Amido-2-Keto-1,2-Dihydropyridin-5-Carbonsäure. Sm. 144—145,5° (*B.* 37, 3837 *C.* 1904 [2] 1615).
- $C_7H_7O_4ClS$ * 6) 4-Chlorphenylmethan- α -Sulfonsäure. Anilinsalz (D.R.P. 146946 *C.* 1904 [1] 66).
 11) 2-Chlorphenylmethan- α -Sulfonsäure. Na, K, Anilinsalz (D.R.P. 141783 *C.* 1903 [1] 1324; D.R.P. 146946 *C.* 1904 [1] 66; D.R.P. 150366 *C.* 1904 [1] 1307).
- $C_7H_7O_4NS$ * 7) 1-Amid d. Benzol-1-Carbonsäure-2-Sulfonsäure + H_2O . Salze siehe (*Am.* 30, 364 *C.* 1904 [1] 276).
 * 8) 2-Amid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Salze siehe (*Am.* 30, 353 *C.* 1904 [1] 276).
 * 9) 3-Amid d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. 237—238° (*Am.* 30, 329 *C.* 1903 [2] 1123).

- $C_7H_7O_4NS$ 14) Benzoylsulfaminsäure (Benzamidosulfonsäure). Ag, Ag_2 , Benzamid-salz (A. 333, 283 C. 1904 [2] 904).
- $C_7H_7O_6NS$ * 10) 2-Amidobenzol-1-Carbonsäure-4-Sulfonsäure (D.R.P. 138188 C. 1903 [1] 371).
- 23) 3-Amid-4-Oxybenzol-1-Carbonsäure-3-Sulfonsäure. Sm. 258° (Zers. bei 265°). $Na + 4H_2O$, $Ba + 6\frac{1}{2}H_2O$ (Am. 31, 41 C. 1904 [1] 441).
- $C_7H_7O_6NS$ * 3) 5-Nitro-2-Oxyphenylmethan- α -Sulfonsäure (D.R.P. 150313 C. 1904 [1] 1115).
- C_7H_7ONCl * 8) Methyläther d. 4-Chlor-2-Amido-1-Oxybenzol. Sm. 84° (D.R.P. 137956 C. 1903 [1] 112).
- 12) 5-Chlor-3-Amido-4-Oxy-1-Methylbenzol. Sm. 89–90°. HCl (A. 328, 313 C. 1903 [2] 1247).
- $C_7H_5ON_2Br_2$ 1) Methylamid d. 3,4-Dibrom-1-Methylpyrrol-2-Carbonsäure. Sm. 137° (B. 37, 2801 C. 1904 [2] 533).
- $C_7H_5O_2NCl$ * 1) 4[oder 6]-Chlor-6[oder 4]-Amido-2,5-Dioxy-1-Methylbenzol. Sm. 160–162° (A. 328, 317 C. 1903 [2] 1247).
- $C_7H_5O_3N_2S$ * 9) Diamid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 263° (Am. 30, 363 C. 1904 [1] 276).
- 10) Phenylsulfonharnstoff. Sm. 167,4° (B. 37, 694 C. 1904 [1] 1074).
- 11) Methylester d. β -Acetylamidothiazol- β -Carbonsäure. Sm. 178° u. Zers. (B. 36, 3550 C. 1903 [2] 1379).
- $C_7H_5O_4N_2S$ * 10) Amid d. 4-Nitro-1-Methylbenzol-2-Sulfonsäure (D.R.P. 143435 C. 1903 [2] 405).
- $C_7H_5O_4N_2S_2$ 1) Methylenamid d. Benzol-1,3-Disulfonsäure. Zers. oberh. 180° (B. 37, 4104 C. 1904 [2] 1727).
- $C_7H_5O_5N_2S$ 9) 5-Nitro-2-Amidophenylmethan- α -Sulfonsäure. NH_4 (D.R.P. 150366 C. 1904 [1] 1307).
- 10) 1-Methylnitramidobenzol-4-Sulfonsäure. K (A. 330, 33 C. 1904 [1] 1141).
- $C_7H_5O_5N_2S$ 1) β -Nitro- β -Amido-2-Oxyphenylmethan- α -Sulfonsäure (D.R.P. 141783 C. 1903 [1] 1325).
- $C_7H_5O_5N_2S$ 1) Nitromethoxychinolnitrosäuresulfonsäure. Ba (Am. 29, 119 C. 1903 [1] 709).
- $C_7H_5NCl_4P$ 1) Methylphenylamidodichlorphosphin. Sd. 251° (A. 326, 221 C. 1903 [1] 866).
- $C_7H_5NCl_4P$ 1) Methylphenylamidophosphortetrachlorid (A. 326, 221 C. 1903 [1] 866).
- $C_7H_5ON_3Br$ 2) Methylamid d. 3[oder 4]-Brom-1-Methylpyrrol-2-Carbonsäure. Sm. 112° (B. 37, 2801 C. 1904 [2] 533).
- $C_7H_5O_2NS$ * 11) Methylamid d. Benzolsulfonsäure. Sm. 30–31° (B. 36, 2706 C. 1903 [2] 829).
- $C_7H_5O_3NS$ * 15) 2-Methylphenylsulfaminsäure (D.R.P. 151134 C. 1904 [1] 1381).
- * 17) 4-Methylphenylsulfaminsäure (D.R.P. 151134 C. 1904 [1] 1381).
- $C_7H_5O_4NS$ 8) 5-Amido-2-Oxyphenylmethan- α -Sulfonsäure (D.R.P. 150313 C. 1904 [1] 1115).
- 9) 4-Amido-1-Oxybenzylmethyläther-3-Sulfonsäure (D.R.P. 146655 C. 1903 [2] 1301).
- $C_7H_5O_4N_2Br$ 1) Bromakrylamidoacetylamidoessigsäure. Sm. 202° u. Zers. (B. 37, 2511 C. 1904 [2] 427).
- $C_7H_5O_5NS_2$ 1) α -Phenylsulfonamidomethan- α -Sulfonsäure. Na (B. 37, 4100 C. 1904 [2] 1726).
- $C_7H_5N_3ClS$ 1) Äthyläther d. 4-Chlor-2-Merkapto-5-Methyl-1,3-Diazin. Sd. 157 bis 159°₂₅ (Am. 31, 596 C. 1904 [2] 242).
- $C_7H_{10}ONCl$ * 4) Verbindung (aus Chlordimethyläther u. Pyridin). $+ HgCl_2$ (A. 334, 52 C. 1904 [2] 948).
- $C_7H_{10}ONJ$ 2) Jodmethylat d. 2-Methylimidomethylfuran (A. 335, 373 C. 1904 [2] 1406).
- $C_7H_{10}ON_2S$ 7) Äthyläther d. 2-Merkapto-4-Keto-5-Methyl-3,4-Dihydro-1,3-Diazin. Sm. 158–159° (Am. 31, 595 C. 1904 [2] 241).
- $C_7H_{10}ON_3Cl$ 1) 5-Chlor-1-Semicarbazol-1,2,3,4-Tetrahydrobenzol. Sm. 190° (Soc. 83, 500 C. 1903 [1] 1028, 1352).
- $C_7H_{10}ON_3Br$ 1) 5-Brom-1-Semicarbazol-1,2,3,4-Tetrahydrobenzol. Sm. 180 bis 198° (Soc. 83, 501 C. 1903 [1] 1352).

- $C_7H_{10}O_2N_2S$ *4) Aethylester d. 2-Amidothiazol-4-Methylcarbonsäure. Sm. 94° (*C. r.* 138, 422 *C.* 1904 [1] 789).
- $C_7H_{10}O_2N_3Cl$ 9) Methyläther d. 2-Merkapto-4, 6-Diketo-5-Aethyl-3, 4, 5, 6-Tetrahydro-1, 3-Diazin. Sm. 257° (*Am.* 32, 353 *C.* 1904 [2] 1414).
- $C_7H_{10}O_3N_2S$ 1) Diäthyläther d. 6-Chlor-2, 4-Dioxy-1, 3, 5-Triazin. Sm. 43—44°; Sd. 144—145°₁₂₋₁₄ (*B.* 36, 3195 *C.* 1903 [2] 956).
- $C_7H_{10}O_4N_2Br_2$ *2) 2, 4-Diamido-1-Methylbenzol-5-Sulfonsäure (*C.* 1904 [1] 1410).
- $C_7H_{10}O_4N_2S$ *4) 2, 6-Diamido-1-Methylbenzol-4-Sulfonsäure (*C.* 1904 [1] 1410).
- $C_7H_{10}O_4N_2Br_2$ 12) 2, 4-Diamido-1-Methylbenzol-6-Sulfonsäure (*C.* 1904 [1] 1410).
- $C_7H_{10}O_4N_2S$ 1) $\alpha\beta$ -Dibrompropionylamidoacetylamidoessigsäure. Sm. 184° u. Zers. (*B.* 37, 2509 *C.* 1904 [2] 427).
- $C_7H_{10}O_4N_2S$ 3) 2, 6-Diamido-1-Oxybenzolmethyläther-4-Sulfonsäure (D. R. P. 148085 *C.* 1904 [1] 135).
- $C_7H_{10}O_5NBr$ 1) Diäthylester d. Bromnitromalonsäure. Sd. 136—137°₁₁ (*B.* 37, 1780 *C.* 1904 [1] 1483).
- $C_7H_{10}NClS$ 1) Chlormethylat d. 2-Merkaptopyridin-2-Methyläther. Sm. 97°.
- $C_7H_{10}NClSe$ 2 + $PtCl_4$ (*A.* 331, 250 *C.* 1904 [1] 1222).
- $C_7H_{10}NClSe$ 1) Chlormethylat d. 2-Selenopyridin-2-Methyläther. Sm. 86°.
- $C_7H_{10}NJS$ 2 + $PtCl_4$ (*A.* 331, 253 *C.* 1904 [1] 1222).
- $C_7H_{10}NJSe$ *1) Jodmethylat d. 2-Merkaptopyridin-2-Methyläther. Sm. 155 bis 156° (*A.* 331, 250 *C.* 1904 [1] 1222).
- $C_7H_{10}NJSe$ 1) Jodmethylat d. 2-Selenopyridin-2-Methyläther. Sm. 186° (*A.* 331, 252 *C.* 1904 [1] 1222).
- $C_7H_{10}N_3ClS$ 1) Methyläther d. 6-Chlor-4-Methylamido-2-Merkapto-5-Methyl-1, 3-Diazin. Sm. 157° (*Am.* 32, 354 *C.* 1904 [2] 1415).
- $C_7H_{11}ONS$ 2) Caprolysenföhl. Sd. 108°₂₃ (*Soc.* 85, 807 *C.* 1904 [2] 201, 519).
- $C_7H_{11}O_2N_2P$ 2) Monamid-Methylphenylamid d. Phosphorsäure. Sm. 125° (*A.* 326, 254 *C.* 1903 [1] 868).
- $C_7H_{11}O_4N_2Br$ 1) α -Brompropionylamidoacetylamidoessigsäure. Sm. 166—167° (*B.* 36, 2986 *C.* 1903 [2] 1112).
- $C_7H_{12}O_2N_4S$ 1) 1-Ureido-2-Thiocarbonyl-4-Keto-5-Methyl-3-Aethyltetrahydroimidazol. Sm. 153° (*C.* 1904 [2] 1027).
- $C_7H_{12}O_3NCl$ 2) Aethylester d. α -Chloracetylamidopropionsäure. Sm. 48,5—49,5° (*B.* 36, 2112 *C.* 1903 [2] 345).
- $C_7H_{13}ONS_2$ 4) Methyl ester d. Isovalerylamidodithioameisensäure. Sm. 87° (*Bl.* [3] 29, 51 *C.* 1903 [1] 446).
- $C_7H_{13}O_5NS$ 4) isom. 2-Merkapto-5- $[\alpha\beta\gamma\delta$ -Tetraoxybutyl]-4, 5-Dihydrooxazol (Merkaptoaminoxolin). Sm. 216° (*C. r.* 138, 505 *C.* 1904 [1] 872).
- $C_7H_{14}ONCl$ 3) Chlorid d. Dipropylamidoameisensäure. Sd. 100—104°₁₂ (*B.* 36, 2273 *C.* 1903 [2] 563).
- $C_7H_{14}ONBr$ 4) Isoamylchloramid d. Essigsäure (*Am.* 29, 311 *C.* 1903 [1] 1166).
- $C_7H_{14}O_2NJ$ 1) Amid γ -Bromhexan- γ -Carbonsäure. Fl. (*C.* 1904 [2] 1666).
- $C_7H_{14}O_2NJ$ 1) Jodmethylat d. 1-Methyltetrahydropyrrol-2-Carbonsäure. Na (*A.* 326, 128 *C.* 1903 [1] 844).
- $C_7H_{15}ONJ$ 1) Aethyläther d. Trimethyl- β -Oxyäthylammoniumjodid. Sm. 160—165° (*B.* 37, 3498 *C.* 1904 [2] 1320).

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- $C_7H_5O_3Cl_2BrS$ 4) s-Dichlorid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 99—100° (*Am.* 30, 487 *C.* 1904 [1] 369).
- $C_7H_5O_3Cl_2BrS$ 5) uns-Dichlorid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 89—90° (*Am.* 30, 488 *C.* 1904 [1] 369).
- $C_7H_4O_3NBrS$ *1) 4-Brom-1-Cyanbenzol-2-Sulfonsäure. NH_3 , Na + $1\frac{1}{2}O$, K + $1\frac{1}{2}H_2O$, Mg + $8\frac{1}{2}H_2O$, Ba + $6H_2O$, Zn + $8\frac{1}{2}H_2O$, Cu + $4H_2O$ (*Am.* 30, 503 *C.* 1904 [1] 371).
- $C_7H_5O_3NBrS$ *2) Imid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. NH_3 (*Am.* 30, 489 *C.* 1904 [1] 370).
- $C_7H_5O_2NCl_3P$ 1) Trichlorid d. Phenylamidophosphinsäure-3-Carbonsäure. Sm. 109—110° (*A.* 326, 242 *C.* 1903 [1] 868).
- $C_7H_5O_2NCl_3P$ 2) Trichlorid d. Phenylamidophosphinsäure-4-Carbonsäure. Sm. 168° (*A.* 326, 243 *C.* 1903 [1] 868).
- $C_7H_5O_2NCl_3P$ 3) 2-Chlorid d. Phosphorsäuredichloridphenylamid-2-Carbonsäure (Chlorid d. Phenylamidoxydichlorphosphin-2-Carbonsäure). Sm. 62° (*B.* 36, 1827 *C.* 1903 [2] 201).

- $C_7H_5O_2N_2ClS$ 2) 2-Chlor-*p*-Dinitrophenylmethan- α -Sulfonsäure (D.R.P. 141783 C. 1903 [1] 1325).
- $C_7H_5O_3NCIS$ 2) 2-Chlorid d. Benzol-1-Carbonsäureamid-2-Sulfonsäure. Sm. 63° (Am. 30, 371 C. 1904 [1] 277).
- $C_7H_5O_4NBrS$ 6) 1-Amid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure + $1\frac{1}{2}H_2O$. Na + $1\frac{1}{2}H_2O$, K (Am. 30, 507 C. 1904 [1] 371).
- 7) 2-Amid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 192–197°. Na, K, Mg + $3H_2O$, Ca + $2H_2O$, Sr + $4H_2O$, Ba + $2H_2O$ (Am. 30, 508 C. 1904 [1] 371).
- $C_7H_6O_4N_2Cl_2S$ 1) Dichloramid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 101° (C. 1904 [2] 435).
- $C_7H_5O_3NCIS$ *4) 6-Chlor-3-Nitro-1-Methylbenzol-4-Sulfonsäure (D.R.P. 145908 C. 1903 [2] 1099).
- 7) 6-Chlor-3-Nitrophenylmethan- α -Sulfonsäure. Na (D.R.P. 150366 C. 1904 [1] 1307; D.R.P. 154493 C. 1904 [2] 1557).
- $C_7H_7O_2NCl_2S$ *8) Dichloramid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 83° (C. 1904 [2] 435).
- 9) Dichloramid d. 1-Methylbenzol-2-Sulfonsäure. Sm. 33° (C. 1904 [2] 435).
- $C_7H_8ONCl_2P$ *2) 4-Methylphenylmonamid d. Phosphorsäuredichlorid. Sm. 104° (A. 326, 237 C. 1903 [1] 867).
- 3) Benzylmonamid d. Phosphorsäuredichlorid. Fl. (A. 326, 174 C. 1903 [1] 819).
- $C_7H_5O_3NCIS$ 1) 6-Chlor-3-Amido-1-Methylbenzol-4-Sulfonsäure (D.R.P. 145908 C. 1903 [2] 1099).
- 2) 2-Chlorphenylamidomethan- α -Sulfonsäure (D.R.P. 148760 C. 1904 [1] 555).
- $C_7H_8NCl_2SP$ 1) Methylphenylmonamid d. Thiophosphorsäuredichlorid. Fl. (A. 326, 257 C. 1903 [1] 869).
- 2) Benzylmonamid d. Thiophosphorsäuredichlorid. Fl. (A. 326, 205 C. 1903 [1] 821).
- $C_7H_8ONCl_2P$ 1) Methylphenylamid d. Phosphorsäuredichlorid. Sd. 282° (A. 326, 253 C. 1903 [1] 868).
- $C_7H_5O_3NBrP$ 2) 2-Brom-4-Methylphenylmonamid d. Phosphorsäure. Sm. 142° Cu (A. 326, 238 C. 1903 [1] 867).
- $C_7H_{10}ONClP$ 1) Äthyläther d. 1-Piperidylchlorphosphin. Sd. 125°₂₅ (A. 326, 157 C. 1903 [1] 761).
- $C_7H_{18}O_2NSP$ 1) Propylmonamid d. Thiophosphorsäurediäthylester. Sd. 98°₁₁ (A. 326, 203 C. 1903 [1] 821).

— 7 VI —

- $C_7H_5O_2NClBrS$ *1) Chlorid d. 4-Brom-1-Cyanbenzol-2-Sulfonsäure. Sm. 82° (Am. 30, 515 C. 1904 [1] 371).
- $C_7H_7ONCl_2BrP$ 1) 2-Brom-4-Methylphenylmonamid d. Phosphorsäuredichlorid (A. 326, 238 C. 1903 [1] 867).

C₈-Gruppe.

- C_8H_8 *3) Metastyrol (B. 35, 4154 C. 1903 [1] 159).
- C_8H_{10} *1) Äthylbenzol. Sd. 136°₇₀₂ (B. 36, 1632 C. 1903 [2] 25; B. 36, 3085 C. 1903 [2] 989).
- *4) 1,4-Dimethylbenzol. Sm. 0° (3–4°) (B. 36, 2117 C. 1903 [2] 350; B. 36, 3086 C. 1903 [2] 990).
- C_8H_{12} *1) 1,2-Dimethyl-*p*-Dihydrobenzol (Canthareu) (A. 328, 115 C. 1903 [2] 245).
- *2) 3,5-Dimethyl-1,2-Dihydrobenzol. Sd. 133–135° (A. 328, 114 C. 1903 [2] 245).
- *8) 1,1-Dimethyl-1,2-Dihydrobenzol. Sd. 110–111° (A. 328, 113 C. 1903 [2] 245; B. 36, 2692 C. 1903 [2] 1061).
- *9) 1,3-Dimethyl-1,2-Dihydrobenzol. Sd. 128–130° (A. 328, 114 C. 1903 [2] 245).
- 11) 1,1-Dimethyl-1,4-Dihydrobenzol. Sd. 135–137° (A. 328, 111 C. 1903 [2] 245).

- C_8H_{12} 12) 2-Methyl-4-Aethyl-R-Penten. *Sd.* 135° (*B.* 36, 950 *C.* 1903 [1] 1022).
 C_8H_{14} *14) Laurolen (*Am.* 32, 288 *C.* 1904 [2] 1222).
 22) Kohlenwasserstoff (aus 1-Oxy-1-Aethylhexahydrobenzol). *Sd.* 134°₇₈₀ (*C. r.* 138, 1323 *C.* 1904 [2] 219; *C. r.* 139, 344 *C.* 1904 [2] 704).
 C_8H_{18} *9) 1,3-Dimethylhexahydrobenzol. *Sd.* 120°₇₅₁ (*C.* 1904 [2] 955).

— 8 II —

- $C_8H_8O_3$ *1) Anhydrid d. Benzol-1,2-Dicarbonsäure (*Am.* 31, 263 *C.* 1904 [1] 1078).
 $C_8H_8N_2$ *2) Nitril d. Benzol-1,3-Dicarbonsäure. *Sm.* 161,5—162° (*C.* 1904 [2] 101).
 $C_8H_4Br_8$ 1) 1,4-Di(Tribrommethyl)benzol. *Sm.* 194° (*B.* 37, 1466 *C.* 1904 [1] 1342).
 C_8H_8O 3) Phenyläther d. α -Oxyäthin. *Sd.* 75°₃₅. *Cu, Ag* (*B.* 36, 294 *C.* 1903 [1] 582).
 $C_8H_6O_2$ *6) Aldehyd d. Benzolketocarbonsäure + H_2O . *Sm.* 72—73° (*B.* 35, 4132 *C.* 1903 [1] 295; *A.* 325, 143 *C.* 1903 [1] 644).
 $C_8H_8O_3$ *3) Benzolketocarbonsäure (*J. pr.* [2] 68, 531 *C.* 1904 [1] 452).
 *16) Piperonal. 2 + 3 H_2SO_4 (*R.* 21, 356 *C.* 1903 [1] 151).
 19) Verbindung + 3 H_2O (aus Pannarol) (*J. pr.* [2] 68, 59 *C.* 1903 [2] 513).
 $C_8H_8O_4$ *1) 3,4-Dioxybenzol-3,4-Methylenäther-1-Carbonsäure (*Soc.* 83, 621 *C.* 1903 [1] 591).
 *2) Benzol-1,2-Dicarbonsäure (*D.R.P.* 138790 *C.* 1903 [1] 546; *D.R.P.* 140999 *C.* 1903 [1] 1106; *R.* 21, 352 *C.* 1903 [1] 150; *D.R.P.* 139956 *C.* 1903 [1] 857; *C.* 1903 [2] 1330).
 *3) Benzol-1,3-Dicarbonsäure. *Sm.* 348,5° (*B.* 36, 1798 *C.* 1903 [2] 283).
 *5) 2-Oxybenzol-1-Ketocarbonsäure. *Sm.* 41—42° (*B.* 35, 4346 *C.* 1903 [1] 287).
 *15) 5,6-Dioxy-2-Keto-1,2-Dihydrobenzofuran (Anhydroglykopyrogallol). *Sm.* 229°. *Pb* (*B.* 37, 817 *C.* 1904 [1] 1150).
 $C_8H_8O_5$ *4) 4-Oxybenzol-1,3-Dicarbonsäure. *Sm.* 305° (*B.* 37, 2122 *C.* 1904 [2] 438).
 *12) Benzol-1-Carbonsäure-2-Percarbonsäure (*Am.* 29, 200 *C.* 1903 [1] 959).
 13) 2,4-Dioxybenzol-1-Ketocarbonsäure. *Sm.* 194° (*B.* 36, 1949 *C.* 1903 [2] 296).
 $C_8H_8O_8$ *8) Dianhydrid d. isom. Butan- $\alpha\beta\gamma\delta$ -Tetracarbonsäure (vom *Sm.* 236°). *Sm.* 168—169° (*B.* 36, 3295 *C.* 1903 [2] 1167).
 $C_8H_4N_2$ *2) 1,3-Benzdiazin. *Sm.* 48—48,5°; *Sd.* 243°₇₇₂. (2HCl, PtCl₂), (HCl, AuCl₃ + H_2O) (*B.* 36, 808 *C.* 1903 [1] 978; *B.* 37, 3643 *C.* 1904 [2] 1512).
 C_8H_7N *2) Indol (*J. pr.* [2] 66, 504 *C.* 1903 [1] 517; *B.* 37, 1134 *C.* 1904 [1] 1270; *D.R.P.* 152683 *C.* 1904 [2] 166).
 *4) Nitril d. 1-Methylbenzol-2-Carbonsäure (*B.* 36, 14 *C.* 1903 [1] 398).
 *6) Nitril d. 1-Methylbenzol-4-Carbonsäure. *Sm.* 28—29° (*B.* 36, 14 *C.* 1903 [1] 398).
 C_8H_8O *3) Acetophenon (*B.* 36, 756 *C.* 1903 [1] 832; *C. r.* 136, 576 *C.* 1903 [2] 1110; *C.* 1904 [1] 1259).
 *4) 1,2-Dihydrobenzofuran (Cumaran). *Sd.* 188—190° (*B.* 36, 2876 *C.* 1903 [2] 834).
 *6) Aldehyd d. Phenyllessigsäure (*C. r.* 137, 989 *C.* 1904 [1] 257).
 *7) Aldehyd d. 1-Methylbenzol-2-Carbonsäure. *Sd.* 197° (*C. r.* 137, 717 *C.* 1903 [2] 1433; *B.* 36, 4152 *C.* 1904 [1] 273).
 *9) Aldehyd d. 1-Methylbenzol-4-Carbonsäure (*C. r.* 138, 94 *C.* 1904 [1] 509).
 $C_8H_8O_2$ *5) Oxymethylphenylketon. *Sm.* 84—85° (*A.* 325, 143 *C.* 1903 [1] 644).
 *14) 1-Methylbenzol-2-Carbonsäure. + H_2SO_4 (*R.* 21, 351 *C.* 1903 [1] 150; *Soc.* 85, 241 *C.* 1904 [1] 1006).
 *15) 1-Methylbenzol-3-Carbonsäure. (NH_4)H, KH (*Soc.* 83, 1443 *C.* 1904 [1] 510).
 *16) 1-Methylbenzol-4-Carbonsäure. + H_2SO_4 , (NH_4)H, KH (*R.* 21, 351, *C.* 1903 [1] 150; *Soc.* 83, 1443 *C.* 1904 [1] 510).
 *31) Aldehyd d. 2-Oxybenzylmethylether-1-Carbonsäure. *Sm.* 38° (*B.* 37, 2347 *Anm.* *C.* 1904 [2] 229).
 *33) Aldehyd d. 4-Oxybenzylmethylether-1-Carbonsäure (*B.* 37, 188 *C.* 1904 [1] 638).

- $C_8H_8O_2$ 39) Pannarol. Sm. 176° (*J. pr.* [2] 68, 58 *C.* 1903 [2] 513).
- $C_8H_8O_3$ *4) Besacetophenon. Sm. 142° (*B.* 36, 735 *C.* 1903 [1] 840; *C.* 1904 [1] 1597).
- *9) Äthyläther d. 2-Oxy-1,4-Benzochinon. Sm. 117–119° (*B.* 35, 4194 *C.* 1903 [1] 145).
- *14) 3-Oxyphenylessigsäure. Sm. 129° (*B.* 37, 2121 *C.* 1904 [2] 438).
- *17) 1-Oxymethylbenzol-2-Carbonsäure. Sm. 128° (*A.* 334, 359 *C.* 1904 [2] 1055).
- *30) 3-Oxybenzylmethyläther-1-Carbonsäure. Sm. 110° (*B.* 36, 1804 *C.* 1903 [2] 283).
- *31) 4-Oxybenzylmethyläther-1-Carbonsäure (*C. r.* 136, 378 *C.* 1903 [1] 636).
- *43) Vanillin. + H_2SO_4 (*R.* 21, 356 *C.* 1903 [1] 151; *C.* 1904 [1] 586; *M.* 24, 836 *C.* 1904 [1] 367).
- *44) Aldehyd d. 3,4-Dioxybenzol-4-Methyläther-1-Carbonsäure (*M.* 24, 837 *C.* 1904 [1] 367).
- 55) Methyläther d. 6-Oxy-2-Methyl-1,4-Benzochinon. Sm. 147° (*B.* 36, 894 *C.* 1903 [1] 966).
- $C_8H_8O_4$ *1) Gallacetophenon. Na + H_2O , K, Ba (*Soc.* 83, 129 *C.* 1903 [1] 89, 466).
- *2) Dimethyläther d. 2,6-Dioxy-1,4-Benzochinon. Sm. 249° (*Ar.* 242, 507 *C.* 1904 [2] 1386).
- *4) 2,5-Dioxyphenylessigsäure (*C.* 1903 [1] 1035; *H.* 37, 513 *C.* 1903 [1] 1235).
- *7) α -Oxy- α -[2-Oxyphenyl]essigsäure (*B.* 36, 2580 *C.* 1903 [2] 621).
- *10) i-3,5-Dioxybenzol-1-Methylbenzol-4-Carbonsäure. Sm. 152° u. Zers. bei 130° (*M.* 24, 894 *C.* 1904 [1] 512; *B.* 37, 1413 *C.* 1904 [1] 1417; *C. r.* 136, 1469 *C.* 1903 [2] 284; *C.* 1903 [2] 1330).
- *14) 3,5-Dioxy-1-Methylbenzol-2-Carbonsäure (Orsellinsäure). Zers. bei 175–176° (*B.* 37, 1414 *C.* 1904 [1] 1417; *Bl.* [3] 31, 613 *C.* 1904 [2] 99).
- *37) Dehydracetsäure (*B.* 37, 3387 *C.* 1904 [2] 1220).
- 52) 2,3,5,6-Tetraoxy-1,4-Dimethylbenzol. Sm. 245° (*B.* 37, 2388 *C.* 1904 [2] 308).
- 53) 2,5-Dioxy-1-Methylbenzol-3-Carbonsäure. Sm. 215° (*D.R.P.* 81297). — *II, 1033.
- 54) 2,6-Dioxy-1-Methylbenzol-3-Carbonsäure. Sm. 185° u. Zers. (*M.* 24, 908 *C.* 1904 [1] 513).
- 55) 4,5-Dioxy-1-Methylbenzol-3-Carbonsäure. Sm. 204° (*D.R.P.* 81298). — *II, 1031.
- 56) 2,5-Dioxy-1-Methylbenzol-4-Carbonsäure. Sm. 205° (*D.R.P.* 81297). — *II, 1033.
- 57) Aldehyd d. 2,4,6-Trioxy-1-Methylbenzol-3-Carbonsäure + $\frac{1}{2}H_2O$. Zers. bei 130° (*M.* 24, 876 *C.* 1904 [1] 368).
- 58) Aldehyd d. 2,4,6-Trioxybenzol-4-Methyläther-1-Carbonsäure. Zers. bei 170° (*M.* 24, 862 *C.* 1904 [1] 367).
- $C_8H_8O_5$ *18) 3,4,5-Trioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 240° (*B.* 36, 216 *C.* 1903 [1] 455).
- 21) Oxyessig-2,3-Dioxyphenyläthersäure (Pyrogallolmonoglykolsäure). Sm. 153–154° (*D.R.P.* 155568 *C.* 1904 [2] 1443).
- 22) 2-Acetoxydimethylfuran-5-Carbonsäure. Sm. 115–117° (*B.* 36, 2590 *C.* 1903 [2] 617).
- 23) 1-Methylcarbonat d. 1,2,3-Trioxybenzol. Sm. 120° (*B.* 37, 108 *C.* 1904 [1] 584).
- $C_8H_8O_6$ 7) Gem. Anhydrid d. Essigsäure u. d. α -Keto- γ -Oxybutan- α - γ -Dicarbonsäure- α - γ -Lakton. Sm. 112–113° (*R.* 22, 283 *C.* 1903 [2] 107).
- $C_8H_8O_7$ *1) Monoanhydrid d. Butan- $\alpha\beta\gamma\delta$ -Tetracarbonsäure (vom Sm. 236°). Sm. 168–169° (*B.* 36, 3295 *C.* 1903 [2] 1167).
- $C_8H_8N_2$ *10) 3,4-Dihydro-1,3-Benzodiazin. Sm. 126–127°; Sd. 303–304°₇₈₉. (2HCl, ZnCl₂) (*B.* 36, 807 *C.* 1903 [1] 978; *B.* 37, 3645 *C.* 1904 [2] 1512).
- *12) Nitril d. Phenylamidoessigsäure. Sm. 43° (48°) (*D.R.P.* 142559 *C.* 1903 [2] 81; *D.R.P.* 151538 *C.* 1904 [1] 1308; *B.* 37, 4081 *C.* 1904 [2] 1723).

- $C_8H_5N_2$ *16) Nitril d. 4-Amidophenylelessigsäure. Sm. 46° (B. 35, 4403 C. 1903 [1] 341).
 28) Nitril d. 4-Methylamidobenzol-1-Carbonsäure. Sm. 85—86° (B. 37, 1741 C. 1904 [1] 1599).
 29) Nitril d. 6-Amido-1-Methylbenzol-2-Carbonsäure. Sm. 95,5° (B. 37, 1025 C. 1904 [1] 1203).
- $C_8H_5N_4$ *7) 2,3-Diamido-1,4-Benzodiazin (B. 36, 4039 C. 1904 [1] 182).
 10) α -Amido- α -Cyanamido- α -Phenylimidomethan (Phenylcyanuanidin). Sm. 190—191° (C. 1903 [2] 662).
 11) 5-Amido-1-Phenyl-1,2,3-Triazol. Sm. 139° (B. 35, 4060 C. 1903 [1] 171).
 12) Nitril d. Methylphenylamidoazoameisensäure (2-Phenyl-2-Methyl-1-Cyantriazin). Sm. 69—70° (B. 37, 2379 C. 1904 [2] 322).
- $C_8H_5Cl_2$ *3) $\beta\beta$ -Dichloräthylbenzol. Sd. 210—220°₇₆₀ (B. 36, 3910 C. 1903 [2] 1439).
 17) 4-Dichlormethyl-1-Methylbenzol. Sm. 48—49° (B. 36, 1875 C. 1903 [2] 286).
 18) 3,5-Dichlor-1,2-Dimethylbenzol. Sm. 3—4°; Sd. 226°₇₆₀ (Soc. 81, 1534 C. 1903 [1] 21, 140).
- C_8H_9O 1) Verbindung (aus 2-Oxy-1,3-Dimethylbenzol). Sm. 175—176° (B. 36, 2037 C. 1903 [2] 360).
- C_8H_9N 15) 1,4-Anhydrid d. 4-Methylamido-1-Oxymethylbenzol. HCl (M. 23, 987 C. 1903 [1] 289).
- $C_8H_9N_3$ 11) 7-Amido-6-Methylindazol. Sm. 194° (B. 37, 2592 C. 1904 [2] 660).
 *12) 2-Chlor-1,4-Dimethylbenzol. Sd. 186° (C. r. 135, 1121 C. 1903 [1] 283).
- C_8H_9Cl 13) β -Bromäthylbenzol. Sd. 217—218°₇₃₄ (C. r. 138, 1049 C. 1904 [1] 1493).
- C_8H_9Br *6) 2-Jod-1,4-Dimethylbenzol. Sd. 230°₇₂₂ (A. 332, 46 C. 1904 [2] 40).
 *8) 4-Jod-1-Aethylbenzol. Sd. 209°₇₃₆ (A. 327, 287 C. 1903 [2] 351).
- C_8H_9J
- $C_8H_{10}O$ *1) α -Oxyäthylbenzol (B. 37, 2085 C. 1904 [2] 182).
 *2) β -Oxyäthylbenzol. Sd. 212—215° (J. pr. [2] 66, 509 C. 1903 [1] 517; C. r. 138, 150 C. 1904 [1] 577).
 *6) 2-Oxymethyl-1-Methylbenzol. Sm. 35°; Sd. 219° (Bl. [3] 29, 953 C. 1903 [2] 1117; C. r. 137, 574 C. 1903 [2] 1117).
 *12) 2-Oxy-1,3-Dimethylbenzol. Sm. 49° (B. 36, 2036 C. 1903 [2] 360).
 *15) 2-Oxy-1,4-Dimethylbenzol. Sm. 74° (C. 1903 [2] 1051).
 *17) Methyläther d. Oxymethylbenzol. Sd. 170° (168°) (C. r. 138, 814 C. 1904 [1] 1195; B. 37, 3191 C. 1904 [2] 1109; B. 37, 3695 C. 1904 [2] 1387).
 *19) Methyläther d. 3-Oxy-1-Methylbenzol. Sd. 178° (R. 21, 331 C. 1903 [1] 78).
 *20) Methyläther d. 4-Oxy-1-Methylbenzol. Sd. 174—176° (Am. 31, 26 C. 1904 [1] 441).
- $C_8H_{10}O_2$ *31) 3-Methyläther d. 3,5-Dioxy-1-Methylbenzol (B. 36, 889 C. 1903 [1] 965).
 *32) Dimethyläther d. 1,2-Dioxybenzol. Sd. 205—206°. Pikrat (B. 37, 2150 C. 1904 [2] 207).
 *33) Dimethyläther d. 1,3-Dioxybenzol. Sd. 214° (A. 327, 116 C. 1903 [1] 1214; B. 37, 2152 C. 1904 [2] 207).
 *34) Dimethyläther d. 1,4-Dioxybenzol (A. 327, 116 C. 1903 [1] 1214).
 *46) 1-Oxy-4-Keto-1,3-Dimethyl-1,4-Dihydrobenzol. Sm. 54° (74° wasserfrei) (B. 35, 3891 C. 1903 [1] 26; B. 36, 2032 C. 1903 [2] 360).
 55) 3,4-Dioxy-1-Aethylbenzol. Sm. 39°; Sd. 157—160°₁₉ (C. r. 138, 1702 C. 1904 [2] 436).
 56) 3,5-Dioxy-1,2-Dimethylbenzol + H₂O. Sm. 136—137° (wasserfrei) (A. 329, 305 C. 1904 [1] 793).
 57) 1-Oxy-4-Keto-1,2-Dimethyl-1,4-Dihydrobenzol (B. 36, 1626 C. 1903 [2] 31).
- $C_8H_{10}O_3$ *2) 2,4,6-Trioxy-1,3-Dimethylbenzol. Sm. 164° (A. 329, 279 C. 1904 [1] 796).
 *4) 2-Methyläther d. 2,4,6-Trioxy-1-Methylbenzol + H₂O (A. 329, 275 C. 1904 [1] 795).
 *6) 1,3-Dimethyläther d. 1,2,3-Trioxybenzol. Sm. 55°; Sd. 262,5° (B. 36, 1032 C. 1903 [1] 1223).

- $C_8H_{10}O_8$ *9) Monoäthyläther d. 1,2,3-Trioxybenzol. Sm. 102—104° (Soc. 83, 133 C. 1903 [1] 466).
- *29) Filicinsäure (A. 329, 289 C. 1904 [1] 796).
- 35) 3-Methyläther d. 2,3,5-Trioxy-1-Methylbenzol. Sm. 128—129° (B. 36, 895 C. 1903 [1] 966).
- 36) 1,2-Dimethyläther d. 1,2,3-Trioxybenzol. Sd. 232—234°. Pikrat (B. 36, 661 C. 1903 [1] 710; M. 25, 513 C. 1904 [2] 1118).
- 37) Anhydrid d. β -Hexen- $\beta\gamma$ -Dicarbonsäure. Sd. 241—242° (B. 37, 2470 C. 1904 [2] 305).
- 38) Anhydrid d. cis- δ -Methyl- β -Penten- $\beta\delta$ -Dicarbonsäure. Sm. 88° (Soc. 83, 777 C. 1903 [2] 191, 423; Soc. 85, 157 C. 1904 [1] 720).
- 39) Anhydrid d. Crotonsäure. Sd. 128—130°₁₉ (Am. 29, 194 C. 1903 [1] 959).
- 40) Anhydrid d. Säure $C_8H_{10}O_8$. Sm. 66° (C. r. 136, 693 C. 1903 [1] 960).
- $C_8H_{10}O_4$ *10) 1,2,3,4-Tetrahydrobenzol-2,5-Dicarbonsäure (Soc. 85, 437 C. 1904 [1] 1440).
- 38) Peroxyd d. Crotonsäure. Sm. 41° (Am. 29, 195 C. 1903 [1] 959).
- $C_8H_{10}O_8$ *3) isom. Butan- $\alpha\beta\gamma\delta$ -Tetracarbonsäure. Sm. 236—237°. Ag₂ (B. 36, 3295 C. 1903 [2] 1167).
- 11) Diformalchleimsäure. Sm. 160° (R. 21, 319 C. 1903 [1] 138).
- 12) Diformalzuckersäure. Sm. 103° (R. 21, 316 C. 1903 [1] 137).
- 13) Succinperoxyd. Sm. 128° u. Zers. (Am. 32, 55 C. 1904 [2] 765).
- $C_8H_{10}N_2$ *5) α -Äthyliden- β -Phenylhydrazin. α -Modif. Sm. 98—100°; β -Modif. Sm. 62—64° (B. 36, 56 C. 1903 [1] 450; B. 36, 88 C. 1903 [1] 452).
- *9) 1,2,3,4-Tetrahydro-1,3-Benzodiazin + H₂O. Sm. 49—51° (81°; 76° wasserfrei) (B. 36, 811 C. 1903 [1] 978).
- 17) Methyl-2-Amidobenzylidenamin. Fl. (B. 37, 3654 C. 1904 [2] 1514).
- 18) 2-Methylbenzylidenhydrazin. Sm. 97° (C. r. 137, 717 C. 1903 [2] 1433).
- $C_8H_{11}N$ *1) Äthylamidobenzol. Oxalat (B. 36, 203 C. 1903 [1] 507; C. r. 138, 1038 C. 1904 [1] 1490).
- *2) i- α -Amidoäthylbenzol (B. 36, 704 C. 1903 [1] 818).
- *6) 4-Amido-1-Äthylbenzol (A. 327, 286 C. 1903 [2] 351).
- *7) Dimethylamidobenzol. Oxalat (M. 25, 384 Ann. C. 1904 [2] 320).
- *18) 4-Amido-1,3-Dimethylbenzol. (HBr, Br₂), (2HBr, Br₂) (C. r. 138, 1038 C. 1904 [1] 1490; B. 37, 2344 C. 1904 [2] 433).
- *31) 2,4,6-Trimethylpyridin. (HCl, AuCl₃ + H₂O) (B. 36, 2130 C. 1903 [2] 365; Soc. 83, 763 C. 1903 [2] 443).
- *42) d- α -Amidoäthylbenzol. d-Bromcamphersulfonat (Soc. 83, 1147 C. 1903 [2] 1061).
- 45) l- α -Amidoäthylbenzol. d-Chlorcamphersulfonat, d-Bromcamphersulfonat (Soc. 83, 1147 C. 1903 [2] 1061).
- $C_8H_{11}N_3$ 7) 4-Methylphenylguanidin. HNO₃ (B. 37, 1683 C. 1904 [1] 1491).
- $C_8H_{11}Br$ 2) Verbindung (aus d. Verb. $C_8H_{13}OBr_3$). Sd. 165—167° (Soc. 83, 859 C. 1903 [2] 573).
- $C_8H_{12}O$ 13) Ketobicyclo[1,2,3]oktan. Sm. 157—158° (B. 36, 3612 C. 1903 [2] 1372).
- $C_8H_{12}O_2$ *32) 3-Keto-4-Oxymethylen-1-Methylhexahydrobenzol. Sd. 85°₁₂ (A. 329, 119 C. 1903 [2] 1322).
- *33) α -Heptin- α -Carbonsäure. Ba + H₂O, Phenylhydrazinsalz (C. r. 136, 553 C. 1903 [1] 824).
- *35) 5-Methyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure. Sm. 99° (Soc. 85, 663 C. 1904 [2] 330).
- *40) Lakton d. cis-1-Oxy-1-Methylhexahydrobenzol-4-Carbonsäure. Sm. 70°; Sd. 185°₁₅₉ (Soc. 85, 660 C. 1904 [2] 330).
- 42) 2-Keto-1-Oxymethylen-R-Heptamethylen (Oxymethylsuberon). Sd. 100°₁₀ (A. 329, 128 C. 1903 [2] 1323).
- 43) $\beta\delta$ -Heptadien- ϵ -Carbonsäure. Sm. 75—77°. Cu, Ag (C. 1902 [2] 1409; 1903 [2] 556).
- 44) $\beta\delta$ -Dimethyl- $\alpha\gamma$ -Pentadien- α -Carbonsäure. Sm. 93° (B. 36, 15 C. 1903 [1] 387).
- 45) ϵ -Methyl- α -Hexin- α -Carbonsäure. Sm. 0°; Sd. 141—144°₁₉ (C. r. 136, 553 C. 1903 [1] 824).

- C₈H₁₂O₂** 46) 1,1-Dimethyl-2,3-Dihydro-R-Penten-2-Carbonsäure. *Sd.* 236°₇₆₀ (*Soc.* 85, 142 *C.* 1904 [1] 728).
- 47) Methylester d. α -Hexin- α -Carbonsäure. *Sd.* 91—93°₁₉ (*C. r.* 136, 553 *C.* 1903 [1] 824).
- 48) Methylester d. $\gamma\gamma$ -Dimethyl- α -Butin- α -Carbonsäure. *Sd.* 66°₁₃ (*C. r.* 136, 553 *C.* 1903 [1] 824).
- 49) Aethylester d. α -Pentin- α -Carbonsäure. *Sd.* 93—94°₂₄ (*C. r.* 136, 553 *C.* 1903 [1] 824).
- 50) Aethylester d. γ -Methyl- α -Butin- α -Carbonsäure. *Sd.* 83°₁₉ (*C. r.* 136, 553 *C.* 1903 [1] 824).
- C₈H₁₂O₃** 51) Acetat d. Verb. C₈H₁₆O₃. *Sd.* 190—195° (*C. r.* 137, 1205 *C.* 1904 [1] 356).
- *15) Anhydrid d. $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Dicarbonsäure. *Sm.* 147° (*Soc.* 85, 554 *C.* 1904 [1] 1485).
- 30) β -Hepten- $\gamma\zeta$ -Oxyd- α -Carbonsäure (Valaktenpropionsäure). *Sd.* 253 bis 255° u. Zers. Ca, Ba, Ag (*A.* 331, 194 *C.* 1904 [1] 1213).
- 31) 5-Keto-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. *Sm.* 110° (*C.* 1903 [1] 923; *Soc.* 85, 139 *C.* 1904 [1] 728).
- 32) Anhydrid d. 1- β -Methylpentan- $\gamma\epsilon$ -Dicarbonsäure. *Sd.* 155—160°₁₉ (*B.* 36, 1751 *C.* 1903 [2] 117).
- 33) Methylester d. 4-Ketohexahydrobenzol-1-Carbonsäure. *Sd.* 140°₂₀ (*Soc.* 85, 426 *C.* 1904 [1] 1439).
- C₈H₁₂O₄** *15) trans- $\beta\gamma$ -Dimethyl- α -Buten- $\alpha\gamma$ -Dicarbonsäure. *Sm.* 148° (*Soc.* 83, 773 *C.* 1903 [2] 423).
- *16) cis- $\beta\gamma$ -Dimethyl- α -Buten- $\alpha\gamma$ -Dicarbonsäure. *Sm.* 133° (*Soc.* 83, 773 *C.* 1903 [2] 423).
- *21) i-trans-Hexahydrobenzol-1,2-Dicarbonsäure. *Sm.* 221° (*C.* 1904 [2] 1697).
- *24) cis-Hexahydrobenzol-1,4-Dicarbonsäure. *Sm.* 160—162° (*B.* 36, 2860 *C.* 1903 [2] 1129).
- *25) trans-Hexahydrobenzol-1,4-Dicarbonsäure. *Sm.* 297—308° (*B.* 36, 2860 *C.* 1903 [2] 1129).
- *43) Terpenylsäure. *Sm.* 89° (*G.* 33 [1] 400 *C.* 1903 [2] 571).
- *56) Aethylester d. β -Acetoxylpropen- α -Carbonsäure (*B.* 37, 3395 *C.* 1904 [2] 1221).
- *76) β -Hexen- $\beta\gamma$ -Dicarbonsäure. Ba + H₂O (*B.* 37, 2471 *C.* 1904 [2] 305).
- 86) cis- δ -Methyl- β -Penten- $\beta\delta$ -Dicarbonsäure. *Sm.* 125° u. Zers. (*Soc.* 85, 157 *C.* 1904 [1] 720).
- 87) trans- δ -Methyl- β -Penten- $\beta\delta$ -Dicarbonsäure (trans- $\alpha\alpha\gamma$ -Trimethylglutakonsäure). *Sm.* 150° (*Soc.* 83, 777 *C.* 1903 [2] 191, 423; *C. r.* 136, 1140 *C.* 1903 [1] 1405; *Bl.* [3] 29, 1023 *C.* 1903 [2] 1315).
- 88) Säure (aus Glutakonylglutakonsäuretriäthylester) (*C. r.* 136, 693 *C.* 1903 [1] 960).
- 89) $\alpha\gamma$ -Lakton d. γ -Oxybutan- $\alpha\beta$ -Dicarbonsäure- β -Aethylester. *Sd.* 273—273,5° (*A.* 330, 306 *C.* 1904 [1] 927; *B.* 37, 1997 *C.* 1904 [2] 23).
- 90) $\alpha\gamma$ -Lakton d. α -Oxybutan- $\beta\gamma$ -Dicarbonsäure- β -Aethylester (α -Methylparakonsäureäthylester). *Sd.* 145—150°₁₄ (*B.* 37, 1613 *C.* 1904 [1] 1402).
- 91) Lakton d. α -Oxy- β -Isopropylpropan- $\alpha\gamma$ -Dicarbonsäure (*B.* 36, 1750 *C.* 1903 [2] 116).
- 92) Lakton d. γ -Oxy- α -Acetoxyl- $\beta\beta$ -Dimethylpropan- α -Carbonsäure? *Sd.* 122—125°₁₁ (*M.* 25, 51 *C.* 1904 [1] 717).
- 93) Isobutylester d. $\alpha\beta$ -Diketobuttersäure. *Sd.* 96—100°₁₅, + $\frac{1}{2}$ H₂O (*Sm.* 96°) (*C. r.* 138, 1222 *C.* 1904 [2] 27).
- C₈H₁₂O₅** *11) Diäthylester d. Oxalessigsäure (*C. r.* 138, 1505 *C.* 1904 [2] 422).
- 25) cis-1-Oxyhexahydrobenzol-1,4-Dicarbonsäure. *Sm.* 168—170° (*Soc.* 85, 436 *C.* 1904 [1] 1082, 1440).
- 26) trans-1-Oxyhexahydrobenzol-1,4-Dicarbonsäure. *Sm.* 228—230° (*Soc.* 85, 435 *C.* 1904 [1] 1082, 1440).
- 27) α -Oxy- α -Butenäthyläther- $\beta\gamma$ -Dicarbonsäure. *Sm.* 151° (*B.* 37, 1614 *C.* 1904 [1] 1402).
- 28) $\beta\delta$ -Lakton d. γ -Oxy- β -Oxymethyl- β -Methylbutan- $\delta\delta$ -Dicarbonsäure. *Sm.* 82° (*M.* 25, 15 *C.* 1904 [1] 719).
- C₈H₁₂O₆** *3) Pentan- $\alpha\gamma\epsilon$ -Tricarbonsäure. *Sm.* 116—118° (*Soc.* 85, 423 *C.* 1904 [1] 1439).
- 24) Formalmethylenfruktosid. *Sm.* 92° (*R.* 22, 163 *C.* 1903 [2] 108).

- $C_8H_{12}O_6$ 25) Formalmethylen-d-Sorbosid. Sm. 54° (*R.* 22, 164 *C.* 1903 [2] 109).
 26) Formalmethylen-l-Sorbosid. Sm. 54° (*R.* 22, 164 *C.* 1903 [2] 109).
 27) Formalmethylen-i-Sorbosid. Sd. 81° (*R.* 22, 164 *C.* 1903 [2] 109).
 28) β -Methylbutan- $\alpha\alpha\delta$ -Tricarbonsäure. Sm. 127–128° u. Zers. Ca + H_2O (*C.* 1903 [2] 1425).
 29) β -Methylbutan- $\alpha\gamma\gamma$ -Tricarbonsäure Sm. 165° u. Zers. (*Soc.* 83, 358 *C.* 1903 [1] 389, 1122).
- $C_8H_{12}N_2$ *24) uns-Aethylphenylhydrazin (*C.* 1903 [1] 1125).
 42) 2-Amido-4-Amidomethyl-1-Methylbenzol. Fl. (*C.* 1904 [2] 200).
 43) Crotonaldazin. Sm. 96° (*M.* 24, 439 *C.* 1903 [2] 617).
 44) R-Heptamethylenpyrazol (Suberonpyrazol). Sm. 66–67°. (2 HCl, PtCl₄) (*A.* 329, 129 *C.* 1903 [2] 1323).
 45) Pyrazol (aus 3-Semicarbazone-4-Oxymethylen-1-Methylhexahydrobenzol). Sm. 99–100°. HCl, Pikrat, Ag (*A.* 329, 120 *C.* 1903 [2] 1322).
 46) 2-[β -Methylamidoäthyl]pyridin. Sd. 113–114°₃₀. (2 HCl, PtCl₄ + H_2O), (2 HCl, AuCl₃), Pikrat (*B.* 37, 169 *C.* 1904 [1] 672).
 47) 2,5-Diäthyl-1,4-Diazin. Sd. 185,5–186°₇₀. + 2 HgCl₂, (HCl, AuCl₃), Pikrat (*B.* 37, 2478 *C.* 1904 [2] 419).
 48) Nitril d. Hexan- $\alpha\zeta$ -Dicarbonsäure. Sm. –3,5°; Sd. 185₁₅ (*C. r.* 136, 246 *C.* 1903 [1] 583).
- $C_8H_{12}Br_2$ 2) Verbindung (aus d. Verb. $C_8H_{13}OBr_3$). Sd. 218–220° (*Soc.* 83, 859 *C.* 1903 [2] 573).
- $C_8H_{13}O$ 1) Verbindung (aus Guttapercha). = $(C_8H_{13}O)_x$ (*C.* 1903 [1] 84).
 $C_8H_{13}N$ *9) Tropidin (*A.* 326, 20, 28 *C.* 1903 [1] 778).
 *14) Hämapyrrol (*B.* 37, 2472 *C.* 1904 [2] 306).
 16) 2,5-Dimethyl-1-Aethylpyrrol (*C.* 1903 [2] 1281).
- $C_8H_{14}O$ *1) δ -Oxy- β -Methyl- $\alpha\zeta$ -Heptadien (*C.* 1903 [2] 1415).
 *7) ϵ -Keto- γ -Methyl- γ -Hepten. Sd. 166° (*C.* 1903 [2] 656).
 *18) Aldehyd d. γ -Hepten- γ -Carbonsäure. Sd. 172–174° (*M.* 25, 337 *C.* 1904 [1] 1400).
 *28) isom. Ketodimethylhexahydrobenzol. Sd. 169–170°₇₈ (*B.* 36, 954 *C.* 1903 [1] 1022).
 30) Aethyläther d. 1-Oxy-1,2,3,4-Tetrahydrobenzol. Sd. 155° (*C.* 1904 [2] 440; *Soc.* 85, 1416 *C.* 1904 [2] 1736).
 31) γ -Keto- $\beta\delta\delta$ -Trimethyl- α -Penten. Sd. 137–139°₇₅₄ (*C.* 1904 [2] 1025).
 32) Methylhexahydrophenylketon. Sd. 68°₁₂ (*Bl.* [3] 29, 1051 *C.* 1903 [2] 1437).
 33) r-5-Keto-1,1,2-Trimethyl-R-Pentamethylen. Sd. 164° (*C. r.* 136, 1143 *C.* 1903 [1] 1410).
 34) 2-Keto-1,1,3-Trimethyl-R-Pentamethylen. Fl. (*A.* 329, 94 *C.* 1903 [2] 1071).
 35) Aldehyd d. 1-Methylhexahydrobenzol-3-Carbonsäure. Sd. 176–178° (*B.* 37, 852 *C.* 1904 [1] 1146).
 36) Verbindung (aus $\alpha\gamma$ -Dioxybutan). Sd. 175–185° u. Zers. (*M.* 25, 7 *C.* 1904 [1] 716).
- $C_8H_{14}O_2$ *11) ϵ -Methyl- β -Hexen- α -Carbonsäure. Sd. 229–232°. Ag (*A.* 331, 148 *C.* 1904 [1] 933).
 *51) $\delta\epsilon$ -Diketooktan. Sd. 166–169°₇₅₅ (*Bl.* [3] 31, 1175 *C.* 1904 [2] 1701).
 *52) $\delta\zeta$ -Diketo- β -Methylheptan (Isovalerylaceton). Sd. 76°₁₅, Cu (*Bl.* [3] 27, 1085 *C.* 1903 [1] 225).
 63) $\delta\epsilon$ -Diketo- β -Methylheptan. Sd. 59–60°₁₈ (*Bl.* [3] 31, 1176 *C.* 1904 [2] 1701).
 64) $\beta\delta$ -Diketo- γ -Methylheptan (Methylbutyrylaceton). Sd. 89–90°₂₀ (*Bl.* [3] 27, 1087 *C.* 1903 [1] 225).
 65) Säure (aus Naphta). Sd. 129–130°₁₄ (D.R.P. 150880 *C.* 1904 [2] 70).
- $C_8H_{14}O_3$ *29) Aethylester d. Aethylacetessigsäure (*B.* 36, 4290 *C.* 1904 [1] 459).
 *47) Aethylester d. γ -Keto- β -Methylbutan- δ -Carbonsäure. Sd. 86–87°₁₅ (*C. r.* 136, 754 *C.* 1903 [1] 1019).
 *51) δ -Oxy- β -Hepten- ϵ -Carbonsäure. Fl. Ag (*C.* 1903 [2] 556).
 *53) δ -Oxy- ϵ -Methyl- β -Hexen- ϵ -Carbonsäure. Fl. Na + 5 H_2O , Ag (*C.* 1903 [2] 556).
 *54) cis-1-Oxy-1-Methylhexahydrobenzol-4-Carbonsäure. Sm. 153° (*Soc.* 85, 661 *C.* 1904 [2] 330).

- $C_8H_{14}O_3$ *58) β -Ketoheptan- α -Carbonsäure. Sm. 73—74° (*C. r.* 136, 755 *C.* 1903 [1] 1019; *Bl.* [3] 31, 597 *C.* 1904 [2] 26).
 *59) Methyl ester d. γ -Ketoheptan- β -Carbonsäure (M. d. Methylbutyrylessigsäure). Sd. 89—90°₁₆ (*Bl.* [3] 27, 1101 *C.* 1903 [1] 227).
 *60) Methyl ester d. δ -Keto- β -Methylpentan- ϵ -Carbonsäure. Cu (*Bl.* [3] 27, 1092 *C.* 1903 [1] 226).
 *61) Aethyl ester d. δ -Oxy- β -Penten- ϵ -Carbonsäure. Sd. 100°₂ (*C.* 1903 [2] 555).
 *63) Aethyl ester d. β -Ketopentan- α -Carbonsäure. Sd. 94—96°₁₅. Cu (*C. r.* 136, 754 *C.* 1903 [1] 1019).
 64) ϵ -Keto- β -Methylhexan- β -Carbonsäure. Sm. 49—50°. Ag₂ (*A.* 329, 93 *C.* 1903 [2] 1071).
 65) trans-5-Oxy-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 100—101° (*Soc.* 85, 140 *C.* 1904 [1] 728).
 66) Aethyl ester d. δ -Keto- β -Methylbutan- δ -Carbonsäure. Sd. 93°₂₅ (*Bl.* [3] 31, 1151 *C.* 1904 [2] 1707).
- $C_8H_{14}O_4$ *8) Korksäure (*C.* 1903 [2] 1330).
 *17) β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 98° (*Soc.* 83, 779 *C.* 1903 [2] 191, 423).
 *21) β -Methylpentan- $\gamma\epsilon$ -Dicarbonsäure. Sm. 94—95°. Ag₂ (*A.* 327, 139 *C.* 1903 [1] 1412).
 *24) β -Methylpentan- $\epsilon\epsilon$ -Dicarbonsäure. Sm. 98° (*C.* 1904 [1] 879).
 *27) $\beta\beta$ -Dimethylbutan- $\alpha\delta$ -Dicarbonsäure. Sm. 86—87° (*C. r.* 138, 580 *C.* 1904 [1] 925).
 *39) Dimethylester d. β -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sd. 201—202° (*Soc.* 85, 548 *C.* 1904 [1] 1485).
 *46) Diäthylester d. Aethan- $\alpha\alpha$ -Dicarbonsäure. Sd. 196—197° (*A.* 325, 145 *C.* 1903 [1] 644).
 69) 1- β -Methylpentan- $\gamma\epsilon$ -Dicarbonsäure. Sm. 94—95° (*B.* 36, 1752 *C.* 1903 [2] 117).
 70) γ -Methylpentan- $\alpha\delta$ -Dicarbonsäure. Sm. 80°; Sd. 214—216°₁₈. Cu + H₂O, Ag₂ (*C.* 1903 [2] 1425; *C. r.* 138, 210 *C.* 1904 [1] 663).
 71) β -Aethylbutan- $\alpha\alpha$ -Dicarbonsäure. Sm. 52—53° (*Bl.* [3] 31, 350 *C.* 1904 [1] 1134).
 72) γ -Methylester d. β -Methylbutan- $\beta\gamma$ -Dicarbonsäure (*Soc.* 85, 553 *C.* 1904 [1] 1485).
 73) β -Methylester d. β -Methylbutan- $\beta\gamma$ -Dicarbonsäure (*Soc.* 85, 551 *C.* 1904 [1] 1485).
 74) Methylester d. α -Acetoxyl- β -Methylpropan- β -Carbonsäure. Sd. 191 bis 192°₃₇ (*Bl.* [3] 31, 125 *C.* 1904 [1] 644).
 75) Dimethylester d. Butan- $\alpha\delta$ -Dicarbonsäure. Sd. 115°₁₃ (*Bl.* [3] 29, 1043, 1046 *C.* 1903 [2] 1424).
- $C_8H_{14}O_5$ *11) α -Oxy- β -Isopropylpropan- $\alpha\gamma$ -Dicarbonsäure (*B.* 36, 1750 *C.* 1903 [2] 116).
 35) cis- γ -Oxy- β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 115° (*Soc.* 83, 776 *C.* 1903 [2] 191, 423).
 36) trans- γ -Oxy- β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 154—156° (*Soc.* 83, 776 *C.* 1903 [2] 190, 422).
 37) γ -Oxybutanäthyläther- $\alpha\beta$ -Dicarbonsäure. Fl. Ca + H₂O, Ba, Ag₂ (*A.* 330, 309 *C.* 1904 [1] 927).
- $C_8H_{14}O_6$ *10) Diäthylester d. d-Weinsäure (*Soc.* 85, 766 *C.* 1904 [2] 512).
 22) γ -Oxy- β -Oxymethyl- β -Methylbutan- $\delta\delta$ -Dicarbonsäure. Ca (*M.* 25, 16 *C.* 1904 [1] 719).
- $C_8H_{14}N_2$ 9) 3,4-Dimethyl-5-Propylisopyrrolol? Sd. 148—149°₂₅ (*Bl.* [3] 27, 1105 *C.* 1903 [1] 228).
 10) Nitril d. α -[1-Piperidyl]propionsäure. Sd. 93—94°_{12,5} (*B.* 37, 4086 *C.* 1904 [2] 1724).
- $C_8H_{14}N_4$ 3) Nitril d. Aethylidendi[α -Amidopropionsäure]. Sm. 74—75° (*Bl.* [3] 29, 1187 *C.* 1904 [1] 354).
- $C_8H_{15}N$ *14) d- α -Conicein. Sd. 157—159°. HCl, (HCl, AuCl₃), (HCl, 6HgCl₂) (*B.* 37, 1896 *C.* 1904 [2] 238).
 *15) β -Conicein (*B.* 37, 1895 *C.* 1904 [2] 238).
 *27) 2,2,5,5-Tetramethyl-2,5-Dihydropyrrol. (2HCl, PtCl₄) (*B.* 36, 3372 *C.* 1903 [2] 1187).

- $C_8H_{11}N$ 30) *i*- α -Conicein. Sd. 156—159° (158—161°). HCl, (HCl, 6HgCl₂), (2HCl, PtCl₄), Pikrat (*B.* 37, 1897 *C.* 1904 [2] 238; *B.* 37, 1892 *C.* 1904 [2] 238).
- 31) *i*- ϵ -Conicein. Sd. 151—153°. HCl, (HCl, AuCl₃), Pikrat (*B.* 37, 1889 *C.* 1904 [2] 238).
- $C_8H_{11}N_3$ 1) 2,5-Dipropyl-1,3,4-Triazol. Sm. 70°; Sd. 176°₁₅. Ag (*J. pr.* [2] 69, 493 *C.* 1904 [2] 600).
- 2) 2,5-Diisopropyl-1,3,4-Triazol. Sm. 140—150°. Ag (*J. pr.* [2] 69, 500 *C.* 1904 [2] 600).
- $C_8H_{16}O$ *2) δ -Oxy- δ -Methyl- α -Hepten (*C.* 1903 [2] 1415).
- *5) δ -Oxy- δ -Aethyl- α -Hexen (*C.* 1903 [2] 1415).
- *14) β - ϵ -Dimethylhexan- β - ϵ -Oxyd (*C.* 1904 [1] 578).
- *16) β -Ketooktan. Sd. 170,5—172° (*Bl.* [3] 29, 674 *C.* 1903 [2] 487).
- *17) γ -Ketooktan. Sd. 167—168° (*Bl.* [3] 31, 1158 *C.* 1904 [2] 1707).
- *19) ϵ -Keto- β -Methylheptan. Sd. 163,5° (*Bl.* [3] 31, 1158 *C.* 1904 [2] 1708).
- *29) 2-Oxy-1,3-Dimethylhexahydrobenzol (*C.* 1903 [2] 1415).
- *33) Aldehyd d. Heptan- α -Carbonsäure. Sd. 81°₃₂ (*C. r.* 138, 699 *C.* 1904 [1] 1066).
- *39) ϵ -Oxy- ϵ -Methyl- α -Hepten. Sd. 65°₁₄ (*A.* 329, 176 *C.* 1903 [2] 1413).
- 40) ρ -Oxy-1-Methyl-*R*-Heptamethylen (*C.* 1903 [2] 1415).
- 41) α -Oxyäthylhexahydrobenzol. Sd. 87°₁₁ (189°₇₅₅) (*Bl.* [3] 29, 1050 *C.* 1903 [2] 1437; *C. r.* 139, 344 *C.* 1904 [2] 704).
- 42) 1-Oxy-1-Aethylhexahydrobenzol. Sm. 33°; Sd. 166°₇₆₀ u. Zers. (*C. r.* 138, 1321 *C.* 1904 [2] 219).
- 43) Alkohol (aus α β Diamidooktan). Sd. 183—187° (u. 187—193°) (*M.* 24, 398 *C.* 1903 [2] 620).
- 44) Methyläther d. β -Oxy- α -Hepten. Sd. 144,5° (*C. r.* 138, 287 *C.* 1904 [1] 719; *Bl.* [3] 31, 522 *C.* 1904 [1] 1551).
- 45) Aldehyd d. Heptan- δ -Carbonsäure. Sd. 159—161° (*C. r.* 138, 91 *C.* 1904 [1] 505; *Bl.* [3] 31, 306 *C.* 1904 [1] 1133).
- $C_8H_{16}O_2$ *3) γ -Oxy- β - β -Trimethylpentan- γ - δ -Oxyd (*C.* 1904 [2] 1025).
- *8) Diisobutyraldehyd (*M.* 25, 189 *C.* 1904 [1] 1000).
- *10) Caprylsäure. Sm. 16° (*Bl.* [3] 29, 663 *C.* 1903 [2] 487; *Bl.* [3] 29, 1120 *C.* 1904 [1] 259).
- 59) Monoäthyläther d. isom. 1,2-Dioxyhexahydrobenzol. Sd. 195°₇₈₂ (*C. r.* 136, 384 *C.* 1903 [1] 711).
- 60) Bisacetolmethylalkoholat. Sm. 130° (127°); Sd. 196° (193—194°) (*C.* 1902 [2] 928; *A.* 335, 257 *C.* 1904 [2] 1283).
- 61) Oxyd (aus d. Glycerin d. Methylpropylallylcarbinol). Sd. 217—219° (*C.* 1904 [2] 185).
- 62) Aethylester d. β -Methylbutan- β -Carbonsäure. Sd. 141—142° (*Bl.* [3] 31, 749 *C.* 1904 [2] 303).
- $C_8H_{16}O_3$ 47) β -Oxy- β - δ -Dimethylpentan- α -Carbonsäure. Fl. Ca, Zn, Ag (*C.* 1904 [2] 185).
- 48) Aethylester d. α -Oxy- β -Methylbutan- β -Carbonsäure. Sd. 108°₂₅ (*Bl.* [3] 31, 321 *C.* 1904 [1] 1134).
- 49) Aethylester d. *r*- δ -Oxy- β -Methylbutan- δ -Carbonsäure (Ae. d. *r*- α -Oxyisocaproensäure). Sd. 82°₁₀ (*Bl.* [3] 31, 1180 *C.* 1904 [2] 1710).
- $C_8H_{16}O_6$ *3) Dimethyläther d. *i*-Inosit. Sm. 195,5°; subl. oberh. 200° (*B.* 36, 3110 *C.* 1903 [2] 1003).
- $C_8H_{16}N_2$ 15) Nitril d. δ -Aethylamido- β -Methylbutan- δ -Carbonsäure. Sd. 83,5 bis 84°₁₂ (*B.* 37, 4093 *C.* 1904 [2] 1725).
- 16) Nitril d. α -Isoamylamidopropionsäure. H₂SO₄ (*Bl.* [3] 29, 1200 *C.* 1904 [1] 354).
- 17) Nitril d. Dipropylamidoessigsäure. Sd. 200—202° (*C.* 1904 [2] 1378).
- $C_8H_{16}N_4$ 2) 3,6-Dipropyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 179° (*J. pr.* [2] 69, 488 *C.* 1904 [2] 599).
- 3) 3,6-Diisopropyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 221° u. Zers. (*J. pr.* [2] 69, 498 *C.* 1904 [2] 600).
- $C_8H_{16}Br_2$ 9) α - δ -Dibrom- β - β -Trimethylpentan. Sm. 68°; Sd. 102—103°₁₄ (*M.* 24, 598 *C.* 1903 [2] 1235).
- $C_8H_{11}N$ *9) *d*-Coniin (*B.* 37, 2429 *C.* 1904 [2] 442).
- *12) Isoconiin (*B.* 36, 3698 *C.* 1903 [2] 1382).

- $C_8H_{17}N$ 39) ϵ -Amido- $\beta\epsilon$ -Dimethyl- β -Hexen. Sd. 150°_{760} . (2HCl, PtCl₄) (B. 36, 3365 C. 1903 [2] 1186).
- 40) Aethylamidohexahydrobenzol. Sd. 164° (C. r. 138, 1258 C. 1904 [2] 105).
- 41) Dimethylamidohexahydrobenzol. Sd. 165° (C. r. 138, 1258 C. 1904 [2] 105).
- 42) 2-Methyl-5-Isopropyltetrahydropyrrol. Sd. $150-151^\circ$. HCl (C. 1903 [2] 1324).
- $C_8H_{17}Cl$ *1) α -Chloroktan. Sd. 78°_{15} (Bl. [3] 31, 673 C. 1904 [2] 184).
- $C_8H_{18}O$ *1) α -Oxyoktan. Sd. 96°_{17} (C. r. 136, 1677 C. 1903 [2] 419; Bl. [3] 31, 673 C. 1904 [2] 184).
- *3) δ -Oxy- δ -Methylheptan (C. 1903 [2] 1415).
- 31) Propyläther d. α -Oxypentan (Propylamyläther). Sd. 130° (C. r. 138, 814 C. 1904 [1] 1195).
- $C_8H_{18}O_2$ *3) $\alpha\gamma$ -Dioxy- $\beta\beta\delta$ -Trimethylpentan. Sm. 51° ; Sd. 222° (M. 25, 195 C. 1904 [1] 1001; M. 25, 252 C. 1904 [1] 1330).
- *13) $\beta\epsilon$ -Dioxy- $\beta\epsilon$ -Dimethylhexan. Sm. $88,5-89^\circ$ (C. 1904 [1] 578).
- 14) $\alpha\delta$ -Dioxyoktan. Sm. $58,5^\circ$ (63°); Sd. 172°_{50} (M. 24, 404 C. 1903 [2] 620; C. r. 137, 329 C. 1903 [2] 711; M. 25, 345 C. 1904 [1] 1399).
- 15) isom. Dioxyoktan. Sd. $151-159^\circ_{12-15}$ (M. 24, 405 C. 1903 [2] 620).
- 16) $\alpha\delta$ -Dioxy- $\beta\beta\delta$ -Trimethylpentan. Sm. 86° ; Sd. $209-211^\circ$ (M. 24, 600 C. 1903 [2] 1235).
- 17) $\gamma\delta$ -Dioxy- $\beta\beta\delta$ -Trimethylpentan. Sm. $64,5-65^\circ$; Sd. $201-202,5^\circ_{745}$ (C. 1904 [2] 1025).
- 18) α -Aethyläther d. $\alpha\beta$ -Dioxy- β -Aethylbutan. Sd. 168° (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 303 C. 1904 [1] 1133).
- $C_8H_{18}N_2$ *2) 1-Amido-2-Methyl-5-Aethylhexahydropyridin. Sd. $180-185^\circ$ (C. 1903 [1] 1034).
- *5) 1,4-Diäthylhexahydro-1,4-Diazin. Sd. $169-171^\circ$. (2HCl, PtCl₄) (B. 36, 144 C. 1903 [1] 526).
- 15) 3,5-Diamido-1,1-Dimethylhexahydrobenzol. Sd. $108-105^\circ_{9-10}$. 2CHl, 2HNO₃, H₃PO₃, Oxalat (A. 328, 109 C. 1903 [2] 245).
- 16) 1-Amido-2,4,6-Trimethylhexahydropyridin. Sd. $180-185^\circ$ (C. 1903 [1] 1034).
- $C_8H_{19}N$ *7) Diisobutylamin. (2HCl, PtCl₄) (C. 1904 [1] 923).
- $C_8H_{20}N_2$ *1) $\alpha\delta$ -Diamidooktan (M. 24, 393 C. 1903 [2] 620).
- $C_8H_{20}Sn$ *1) Zinntetraäthyl. Sd. 175° ($180-181^\circ_{738}$) (C. 1904 [1] 353; B. 37, 320 C. 1904 [1] 637).

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- $C_8H_2O_3Cl_2$ 4) Anhydrid d. 3,5-Dichlorbenzol-1,2-Dicarbonsäure. Sm. 89° (Soc. 81, 1536 C. 1903 [1] 21, 140).
- $C_8H_3O_5N$ *1) Anhydrid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 164° (B. 35, 3859 C. 1903 [1] 153).
- $C_8H_4O_2Cl_4$ *4) 2,3,4,6-Tetrachlorphenylester d. Essigsäure. Sm. 69° (B. 37, 4014 C. 1904 [2] 1716).
- $C_8H_4O_4N_2$ *4) Imid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 216° . K (B. 35, 3867 C. 1903 [1] 154).
- 5) 6-Nitro-2-Cyanbenzol-1-Carbonsäure. Sm. $99-100^\circ$ (C. 1903 [2] 431).
- $C_8H_4O_4Cl_2$ 7) 3,5-Dichlorbenzol-1,2-Dicarbonsäure. Sm. 164° u. Zers. Ag₂ (Soc. 81, 1536 C. 1903 [1] 21, 140).
- $C_8H_4O_4Br_2$ *2) 4,5-Dibrombenzol-1,2-Dicarbonsäure. Sm. 209° (A. 334, 365 C. 1904 [2] 1055).
- $C_8H_5OCl_5$ 1) Aethyläther d. Pentachloroxybenzol. Sm. $89-90^\circ$ (B. 37, 4019 C. 1904 [2] 1717).
- $C_8H_5OBr_3$ 5) Phenyläther d. $\alpha\beta\beta$ -Tribrom- α -Oxyäthen. Sm. 94° (B. 36, 292 C. 1903 [1] 581).
- $C_8H_5O_2N$ *2) 4-Nitrophenylacetylen. Sm. 149° (A. 328, 233 C. 1903 [2] 999).
- *4) Isatin (B. 37, 938 C. 1904 [1] 1216).
- *6) 2-Cyanbenzol-1-Carbonsäure (B. 37, 3226 C. 1904 [2] 1121).
- *7) 3-Cyanbenzol-1-Carbonsäure. Sm. 217° (B. 37, 3225 C. 1904 [2] 1121).
- *8) 4-Cyanbenzol-1-Carbonsäure. Sm. 214° . Ag (B. 18, 1498; B. 37, 3221 C. 1904 [2] 1120).

- $C_6H_5O_2N$ 15) Benzoylisocyanensäure. Sm. 25,5—26°; Sd. 202,5—204°₇₂₄ (B. 36, 3218 C. 1903 [2] 1056).
- $C_6H_5O_3Br_3$ *1) Methylester d. 2,4,6-Tribrombenzol-1-Carbonsäure. Sm. 68° (B. 37, 3659 C. 1904 [2] 1452).
- $C_6H_5O_3J_3$ 2) 2,4,5-Trijodphenylester d. Essigsäure. Sm. 123° (C. r. 137, 1066 C. 1904 [1] 266).
- $C_6H_5O_2N$ *6) Isatensäure. Sm. 252—253° u. Zers. (Bl. [3] 31, 884 C. 1904 [2] 673).
- $C_6H_5O_3Br_3$ 7) 2,4,6-Tribrom-3-Oxyphenylessigsäure. Sm. 237° u. Zers. (B. 37, 2121 C. 1904 [2] 438).
- $C_6H_5O_4N_3$ 8) 5-Nitro-4-Phenyl-1,2,3,6-Dioxdiazin. Sm. 110° (A. 328, 251 C. 1903 [2] 1000).
- $C_6H_5O_4Cl$ *4) 4-Chlorbenzol-1,3-Dicarbonsäure. Sm. 294,5° (B. 36, 1799 C. 1903 [2] 283).
- $C_6H_5O_5N$ 8) 2-Aldehyd d. 3-Nitrobenzol-1,2-Dicarbonsäure + H_2O . Sm. 156 bis 157° (wasserfrei) (M. 24, 820 C. 1904 [1] 372).
- 9) 1-Aldehyd d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 159—161° (M. 24, 816 C. 1904 [1] 372).
- 10) 1,2-Methylenätherester d. 5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 110° (A. 330, 92 C. 1904 [1] 1075).
- $C_6H_5O_5N_3$ *1) Nitril d. 3,5-Dinitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 148° (B. 36, 4360 C. 1904 [1] 447; B. 37, 1850 C. 1904 [1] 1492).
- $C_6H_5O_6N$ *2) Pyridin-3,4,5-Tricarbonsäure. Zers. bei 261°. Ag_3 (A. 326, 268 C. 1903 [1] 927).
- $C_6H_5O_6N_5$ *1) Purpursäure. $NH_4 + H_2O$ (Murexid), $K, Na + H_2O$, $Na_2 + 3 H_2O$ (A. 333, 29 C. 1904 [2] 768; Am. 31, 662 C. 1904 [2] 316; B. 37, 2686 C. 1904 [2] 829).
- $C_6H_5O_5N_3$ *3) Methylester d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 158° (B. 37, 3660 C. 1904 [2] 1452).
- $C_6H_5O_5N_5$ C 30,5 — H 1,6 — O 45,7 — N 22,2 — M. G. 315.
- 1) Methylnitramid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 173° + C_6H_6 (R. 21, 394 C. 1903 [1] 152; C. 1903 [2] 1173).
- $C_6H_5NS_2$ *1) Phenylimid d. Dithiooxalsäure. Sm. 128—129° (C. 1903 [2] 493).
- $C_6H_5N_3J$ 1) 1-Jod-2,3-Benzdiazin. Sm. 78° (B. 36, 3377 C. 1903 [2] 1192).
- $C_6H_5ON_2$ *6) 4-Oxy-1,3-Benzdiazin. Sm. 215,5—216,5° (C. 1903 [1] 174; B. 37, 3649 C. 1904 [2] 1513).
- *11) Diazoacetophenon. Sm. 49—50° (A. 325, 141 C. 1903 [1] 644).
- 22) Nitril d. 2-Formylamidobenzol-1-Carbonsäure (C. 1903 [1] 174).
- 23) Nitril d. 3-Formylamidobenzol-1-Carbonsäure. Sm. 150,5—151° (C. 1904 [2] 101).
- $C_6H_6OCl_4$ 1) Äthyläther d. 2,3,4,6-Tetrachlor-1-Oxybenzol. Sm. 59—60° (B. 37, 4016 C. 1904 [2] 1716).
- $C_6H_6OBr_2$ *1) Phenyläther d. $\beta\beta$ -Dibrom- α -Oxyäthen. Sm. 37—38°; Sd. 143°₂₀ (B. 36, 290 C. 1903 [1] 581).
- 8) Phenyläther d. $\alpha\beta$ -Dibrom- α -Oxyäthen. Sd. 155,8°₉₅ (B. 36, 294 C. 1903 [1] 582).
- $C_6H_6OBr_4$ 13) Phenyläther d. $\alpha\alpha\beta\beta$ -Tetrabrom- α -Oxyäthan. Sd. 201°₁₅ (B. 36, 294 C. 1903 [1] 582).
- $C_6H_5O_2N_2$ *12) 2,4-Diket-1,2,3,4-Tetrahydro-1,3-Benzdiazin (J. pr. [2] 69, 33 C. 1904 [1] 641).
- 36) 3-Nitroindol. Sm. 210° (G. 34 [2] 60 C. 1904 [2] 710).
- 37) 5,6-Dioxy-2,3-Benzdiazin. $HCl + H_2O$ (B. 36, 3376 C. 1903 [2] 1191).
- 38) 5,8-Diket-5,6,7,8-Tetrahydro-1,6[oder 1,7]-Benzdiazin (Dioxyclinopyrin). Zers. bei 225°. ($2HCl$, $PtCl_4$), Pikrat (B. 37, 2134 C. 1904 [2] 233).
- 39) Nitril d. 6-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 69,5° (B. 37, 1025 C. 1904 [1] 1203).
- 40) Imid d. 3-Amidobenzol-1,2-Dicarbonsäure. Sm. 256—257° (B. 36, 2496 C. 1903 [2] 567).
- $C_6H_3O_2Cl_2$ *7) 3,5-Dichlor-1-Methylbenzol-2-Carbonsäure. Sm. 184—185° (Soc. 85, 279 C. 1904 [1] 1010).
- $C_6H_5O_4Cl$ *5) 1-Methyläther d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol. Sm. 150—151° (A. 328, 296 C. 1903 [2] 1248).

- $C_8H_6O_2Br_4$ 9) 2,2,4,4-Tetrabrom-1,3-Diketo-5,6-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 128—129° u. Zers. (A. 329, 307 C. 1904 [1] 793).
- $C_8H_6O_2J_2$ 4) 3,4-Dijodphenylester d. Essigsäure. Fl. (Bl. [3] 29, 606 C. 1903 [2] 359).
- 5) 3,5-Dijodphenylester d. Essigsäure. Sm. 79° (C. r. 136, 238 C. 1903 [1] 574).
- $C_8H_6O_3N_2$ 18) 5-Oxy-4-Phenyl-1,2,3,6-Dioxiazin. Sm. 133° u. Zers. (A. 328, 255 C. 1903 [2] 1001).
- 19) Nitril d. α -Oxy-2-Nitrophenylessigsäure. Sm. 95° (B. 37, 948 C. 1904 [1] 1217).
- 20) Nitril d. 3-Nitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 141 bis 142° (B. 36, 4360 C. 1904 [1] 447).
- 21) Nitril d. 5-Nitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 191 bis 193° (B. 36, 4360 C. 1904 [1] 447).
- $C_8H_6O_3Br_2$ 10) Methylester d. 4,6-Dibrom-3-Oxybenzol-1-Carbonsäure. Sm. 144 bis 145° (G. 32 [2] 338 C. 1903 [1] 580).
- $C_8H_6O_4N_2$ *3) β -Nitro- α -[4-Nitrophenyl]äthen. Sm. 199° (A. 325, 14 C. 1903 [1] 287).
- $C_8H_6O_4N_4$ 4) 4,6-Dinitro-5-Methylindazol. Sm. 190—191° (B. 37, 2591 C. 1904 [2] 660).
- 5) 5,7-Dinitro-6-Methylindazol. Sm. 229° (B. 37, 2594 C. 1904 [2] 660).
- 6) 4,6-Dinitro-7-Methylindazol. Sm. 200° u. Zers. (B. 37, 2587 C. 1904 [2] 659).
- $C_8H_6O_5N_2$ *8) Methyl-3,5-Dinitrophenylketon. Sm. 82—84° (J. pr. [2] 69, 468 C. 1904 [2] 596).
- *10) 1-Amid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 150—157° (C. 1903 [2] 431).
- 11) Nitromethyl-4-Nitrophenylketon. Sm. 148—148,5° (A. 325, 18 C. 1903 [1] 287; A. 328, 231 C. 1903 [2] 999).
- 12) 1-Amid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 152—155° (B. 35, 3862, 3866 C. 1903 [1] 154).
- $C_8H_6O_6N_2$ 16) 4,6-Dinitro-1-Methylbenzol-3-Carbonsäure. Sm. 171—171,5° (G. 33 [2] 278 C. 1904 [1] 265).
- 17) 6-Nitro-4-Amidobenzol-1,3-Dicarbonsäure. Sm. 280° u. Zers. Pb (G. 33 [2] 287 C. 1904 [1] 265).
- $C_8H_6O_6N_4$ *2) Hydurilsäure. NH_4 (Uramilsäure) (A. 26, 314; A. 333, 84 C. 1904 [2] 827).
- $C_8H_6O_7N_2$ 5) 3,5-Dinitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 200° (B. 36, 4361 C. 1904 [1] 447).
- 6) Aldehyd d. 2,6-Dinitro-3,4-Dioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 164—165° (B. 35, 4394 C. 1903 [1] 340).
- $C_8H_6O_7N_4$ 5) Methylamid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 285° u. Zers. (R. 21, 383 C. 1903 [1] 152).
- $C_8H_6O_8N_4$ *1) Alloxantin + 2 H_2O (B. 36, 1581 C. 1903 [1] 1398; A. 333, 57 C. 1904 [2] 771).
- *2) Methylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 192°. K (Soc. 85, 650 C. 1904 [2] 310).
- C_8H_6NCl *2) Nitril d. 4-Chlorphenylessigsäure. Sm. 30° (J. pr. [2] 67, 377 C. 1903 [1] 1356).
- 10) Nitril d. 6-Chlor-1-Methylbenzol-2-Carbonsäure. Sm. 19°; Sd. 107°₂₈ (B. 37, 1025 C. 1904 [1] 1203).
- $C_8H_6N_2S$ 1) 5-Phenyl-1,2,3-Thiodiazol. Sm. 53—53,5°. + $HgCl_2$ (A. 333, 12 C. 1904 [2] 780).
- 2) 2-Merkapto-1,3-Benzodiazin. Sm. 229—231° (B. 36, 802 C. 1903 [1] 977).
- 3) Phenylamid d. Cyanthioessigsäure. Sm. 82° (B. 37, 3718 C. 1904 [2] 1449).
- $C_8H_6N_2S_2$ *2) 2-Thiocarbonyl-4-Phenyl-2,4-Dihydro-1,3,4-Thiodiazol (3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol-2,5-Sulfit). Sm. 19°C° (J. pr. [2] 67, 246 C. 1903 [1] 1264).
- $C_8H_6Cl_2Br_2$ 5) 3,5-Dichlor-4,6-Dibrom-1,2-Dimethylbenzol. Sm. 233° (Soc. 85, 273, 285 C. 1904 [1] 806, 1009).

- C₈H₇ON** *8) Indoxyl (D.R.P. 137208, 137955 *C.* 1903 [1] 110; D.R.P. 139393 *C.* 1903 [1] 745; D.R.P. 141749 *C.* 1903 [1] 1323; *B.* 36, 1624 *C.* 1903 [2] 36; D.R.P. 142700 *C.* 1903 [2] 271; D.R.P. 145601 *C.* 1903 [2] 1225).
- *10) Phthalimidin. HCl, HBr, (HBr, Br₂), (HJ, J₂) (*B.* 36, 155 *C.* 1903 [1] 444).
- *16) Nitril d. α -Oxyphenylelessigsäure. K + xH₂O (*Soc.* 85, 1208 *C.* 1904 [2] 1119).
- *25) Nitril d. 4-Oxybenzylmethyläther-1-Carbonsäure. Sm. 59,5—60,5° (56°) (*B.* 36, 370 *C.* 1903 [1] 577; *B.* 36, 650 *C.* 1903 [1] 768).
- 26) Methylantranil. Sd. 245° (121—122°₁₇; 110,5—111°₁₀). + 1 $\frac{1}{2}$ HgCl₂, (2HCl, SnCl₄), (2HCl, PtCl₄ + 2H₂O) (*Ar.* 240, 434 *C.* 1902 [2] 939; *B.* 36, 1616 *C.* 1903 [2] 36; *B.* 36, 3643 *C.* 1903 [2] 1331; *B.* 36, 3649 *C.* 1903 [2] 1332; *B.* 36, 4295 *C.* 1904 [1] 507; *B.* 36, 4186 *C.* 1904 [1] 279; *B.* 37, 967 *C.* 1904 [1] 1078).
- 27) Nitril d. 6-Oxy-1-Methylbenzol-2-Carbonsäure. Sm. 195° (*B.* 37, 1027 *C.* 1904 [1] 1203).
- 28) Nitril d. 2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 99,5° (*B.* 36, 4359 *C.* 1904 [1] 447).
- C₈H₇ON₃** 22) 3-Cyanphenylharnstoff. Sm. 160—162° (*C.* 1904 [2] 102).
- 23) 5-Oxy-1-Phenyl-1,2,3-Triazol. Sm. 118—119°. HCl, Na (*B.* 35, 4054 *C.* 1903 [1] 170; *A.* 335, 81 *C.* 1904 [2] 1231).
- 24) 3-Amido-4-Keto-3,4-Dihydro-1,3-Benzodiazin. Sm. 204° (*J. pr.* [2] 69, 100 *C.* 1904 [1] 730).
- 25) Nitril d. Phenylnitrosamidoessigsäure. Sm. 51—52° (*B.* 37, 2638 *C.* 1904 [2] 519).
- 26) Nitril d. 4-Methylnitrosamidobenzol-1-Carbonsäure. Sm. 125° (*B.* 37, 1741 *C.* 1904 [1] 1599).
- C₈H₇OBr** 6) Phenyläther d. β -Brom- α -Oxyäthen. Sd. 115—116°₁₅ (*B.* 36, 293 *C.* 1903 [1] 581).
- C₈H₇OBr₃** 15) β -Tribromoxydimethylbenzol. Sm. 176—177,5° (*Soc.* 83, 124 *C.* 1903 [1] 231, 449).
- 16) isom. β -Tribromoxydimethylbenzol. Sm. 182—183° (*Soc.* 83, 128 *C.* 1903 [1] 231, 449).
- 17) Phenyläther d. $\alpha\beta\beta$ -Tribrom- α -Oxyäthan. Sd. 191°₁₅ (*B.* 36, 294 *C.* 1903 [1] 582).
- C₈H₇OJ₃** 2) Äthyläther d. 2,4,5-Trijod-1-Oxybenzol. Sm. 120° (*C. r.* 137, 1066 *C.* 1904 [1] 266).
- C₈H₇O₂N** *11) 3-Oxy-2-Keto-2,3-Dihydroindol. Sm. 170° (*B.* 37, 946 *C.* 1904 [1] 1217).
- *17) Phenylimidoessigsäure. Anilinsalz (*A.* 332, 277 *C.* 1904 [2] 701).
- 32) 5-Oxy-1-Methylbenzoxazol. Sm. 193° (*B.* 35, 4205 *C.* 1903 [1] 146).
- 33) 1-Keto-4-Methyl-1,2-Dihydrobenzoxazol. Sm. 128° (*Ann.* 32, 17 *C.* 1904 [2] 696).
- C₈H₇O₂N₃** *1) Phenylurazol. K, Ag₂ (*B.* 36, 3145 *C.* 1903 [2] 1071; *B.* 37, 621 *C.* 1904 [1] 956).
- *4) 6-Nitro-2-Methylindazol. (2HCl, PtCl₄) (*B.* 37, 2578 *C.* 1904 [2] 658).
- *5) 7-Nitro-5-Methylindazol. Sm. 192,5° (*B.* 37, 2588 *C.* 1904 [2] 659).
- *6) 6-Nitro-2-Methylbenzimidazol. Sm. 219° (*B.* 36, 3970 *C.* 1904 [1] 177).
- 16) 4-Nitro-2-Methylindazol. Sm. 81—82° (*B.* 37, 2583 *C.* 1904 [2] 659).
- 17) 5-Nitro-2-Methylindazol. Sm. 128—129° (*B.* 37, 2584 *C.* 1904 [2] 659).
- 18) 7-Nitro-2-Methylindazol. Sm. 144—145° (*B.* 37, 2576 *C.* 1904 [2] 658).
- 19) 7-Nitro-3-Methylindazol. Sm. 180—181° (*B.* 37, 2586 *C.* 1904 [2] 659).
- 20) 5-Nitro-4-Methylindazol. Sm. 259° (*B.* 37, 2586 *C.* 1904 [2] 659).
- 21) 6-Nitro-4-Methylindazol. Sm. 177—178° (*B.* 37, 2586 *C.* 1904 [2] 659).
- 22) 4-Nitro-5-Methylindazol. Sm. 198—199° (*B.* 37, 2590 *C.* 1904 [2] 660).
- 23) 6-Nitro-5-Methylindazol. Sm. 231—232° (*B.* 37, 2593 *C.* 1904 [2] 660).
- 24) 4-Nitro-6-Methylindazol. Sm. 206—207° (*B.* 37, 2592 *C.* 1904 [2] 660).

- $C_8H_7O_2N_3$ 25) 5-Nitro-6-Methylindazol. Sm. 173—174° (*B.* 37, 2588 *C.* 1904 [2] 659).
 26) 7-Nitro-6-Methylindazol. Sm. 162° (*B.* 37, 2591 *C.* 1904 [2] 660).
 27) 4-Nitro-7-Methylindazol? Sm. 222,5° (*B.* 37, 2587 *C.* 1904 [2] 659).
 28) 6-Nitro-7-Methylindazol? Sm. 175—176° (*B.* 37, 2587 *C.* 1904 [2] 659).
 29) p-Nitro-5-Methylbenzimidazol. Sm. 241° (*B.* 36, 3971 *C.* 1904 [1] 178).
 30) 5-Amido-4-Phenyl-1,2,3,6-Dioxdiazin. Sm. 135—136° (*A.* 328, 252 *C.* 1903 [2] 1001).
- $C_8H_7O_2Cl$ *14) 6-Chlor-1-Methylbenzol-2-Carbonsäure. Sm. 159° (*B.* 37, 1026 *C.* 1904 [1] 1203).
 *27) Chlorid d. 2-Oxybenzolzomethyläther-1-Carbonsäure. Sd. 145°₁₇ (*B.* 36, 2585 *C.* 1903 [2] 621).
 *31) Aldehyd d. 4-Oxy-1-Chlormethylbenzol-3-Carbonsäure. Fl. (*B.* 37, 192 *C.* 1904 [1] 660).
 *33) Chlormethylester d. Benzolcarbonsäure. Sd. 116°₁₀ (*C.* 1903 [2] 656).
 35) Aldehyd d. 3-Chlor-4-Oxybenzolzomethyläther-1-Carbonsäure. Sm. 53° (*B.* 31, 1151). — *III, 60.
- $C_8H_7O_2Cl_3$ *1) Dimethyläther d. 4,5,6-Trichlor-1,2-Dioxybenzol. Sm. 68—69° (*C. r.* 135, 969 *C.* 1903 [1] 145).
- $C_8H_7O_2Br$ *7) 4-Brom-1-Methylbenzol-2-Carbonsäure. Sm. 174—176° (*C.* 1904 [2] 200).
- $C_8H_7O_2Br_3$ *2) Dimethyläther d. 4,5,6-Tribrom-1,2-Dioxybenzol. Sm. 84—86° (*C.* 1903 [1] 1339; *C. r.* 135, 968 *C.* 1903 [1] 144).
- $C_8H_7O_2J$ *8) Methylester d. 3-Jodbenzol-1-Carbonsäure. Sm. 50°; Sd. 276—277°₇₃₉ (*A.* 332, 72 *C.* 1904 [2] 42).
- $C_8H_7O_3N$ *1) α -Nitromethylphenylketon. Sm. 105—105,5° (106°) (*B.* 29, 360; *A.* 325, 11 *C.* 1903 [1] 287; *B.* 36, 2561 *C.* 1903 [2] 494; *A.* 328, 239 *C.* 1903 [2] 999).
 *7) 3,4-Methylenäther d. anti-3,4-Dioxybenzaloxim (*G.* 33 [2] 307 *C.* 1904 [1] 288).
 *10) Phenylxaminsäure. Sm. 150° (*A.* 335, 89 *C.* 1904 [2] 1231).
 *40) Methylester d. 2-Nitrosobenzol-1-Carbonsäure. Sm. 153° (156,5 bis 157,5°) (*B.* 36, 2312 *C.* 1903 [2] 430; *B.* 36, 3651 *C.* 1903 [2] 1332).
 41) Methylester d. 3-Nitrosobenzol-1-Carbonsäure. Sm. 93° (*B.* 36, 2313 *C.* 1903 [2] 430).
 42) Methylester d. 4-Nitrosobenzol-1-Carbonsäure. Sm. 128—129,5° (*B.* 36, 2313 *C.* 1903 [2] 430).
 43) Monamid d. Benzol-1,4-Dicarbonsäure. Sm. noch nicht bei 300°. Ag (*B.* 37, 3223 *C.* 1904 [2] 1121).
 4) 7-Methyläther d. 3-Oximido-6,7-Dioxy-1,2-Benzisodiazol. Sm. 169° u. Zers. (*C.* 1903 [2] 31, 32).
 5) Aldehyd d. 5,6-Dioxydiazobenzolimid-6-Methyläther-2-Carbonsäure (*C.* 1903 [2] 31).
- $C_8H_7O_3Br$ 16) Methylester d. 6-Brom-3-Oxybenzol-1-Carbonsäure. Sm. 126° (*G.* 32 [2] 335 *C.* 1903 [1] 579).
- $C_8H_7O_4N$ *22) 3-Amidobenzol-1,2-Dicarbonsäure. (NH_4)₂, Ag₂ (*B.* 36, 2495 *C.* 1903 [2] 567).
 *24) 4-Amidobenzol-1,3-Dicarbonsäure. Sm. 328—329° (*B.* 36, 1804 *C.* 1903 [2] 283).
 *28) 1,3-Methylbetain d. Pyridin-3,4-Dicarbonsäure (Apophyllensäure) (*M.* 24, 520 *C.* 1903 [2] 888; *M.* 24, 695 *C.* 1903 [2] 1282; *M.* 24, 710 *C.* 1904 [1] 218).
 *30) 2-Methylpyridin-4,6-Dicarbonsäure. Sm. 274°. (NH_4)₂, Na₂ + 6H₂O, Cu + 4H₂O (*B.* 23, 136 *C.* 1904 [2] 193).
 *35) Aldehyd d. 5-Nitro-6-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 152° (*B.* 37, 3927 *C.* 1904 [2] 1595).
 *54) 3,4-Methylenäther d. 3,4-Dioxybenzhydroxamsäure (*G.* 33 [2] 241 *C.* 1904 [1] 24; *G.* 33 [2] 306 *C.* 1904 [1] 288).
 *57) 1,3-Methylbetain d. Pyridin-2,3-Dicarbonsäure + H₂O. Sm. 151° (*M.* 24, 202 *C.* 1903 [2] 48; *M.* 24, 710 *C.* 1904 [1] 218).
 59) 1,2-Methylenäther d. 5-Nitro-2-Oxy-1-Oxymethylbenzol. Sm. 148° (*A.* 330, 91 *C.* 1904 [1] 1075).
 60) 3-Methyläther d. 1-Keto-3,5-Dioxy-1,2-Dihydrobenzoxazol. Sm. 242° u. Zers. (*M.* 23, 954 *C.* 1903 [1] 286).

- $C_8H_7O_4N$ 61) Aldehyd d. 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 134° (*B.* 37, 3916 *C.* 1904 [2] 1594).
- $C_8H_7O_4N_3$ 11) β -[2-Nitrophenyl]hydrazonessigsäure. Sm. 202° (*B.* 36, 1378 *C.* 1903 [1] 1344).
- 12) Nitril d. 5-Nitro-3-Hydroxylamido-2-Oxy-1-Methylbenzol-1-Carbonsäure (o-Kresolpurpursäure). Zers. bei 180°. K (*B.* 35, 571 *C.* 1902 [1] 583; *B.* 37, 1850 *C.* 1904 [1] 1493).
- $C_8H_7O_4Br$ 5) Brommethyl-2,3,4-Trioxyphenylketon. Sm. 158—159° (D.R.P. 71312). — *III, 109.
- $C_8H_7O_5N$ *29) 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 199° (*A.* 330, 97 *C.* 1904 [1] 1076).
- *32) Aldehyd d. 5-Nitro-3,4-Dioxybenzol-3-Methyläther-1-Carbonsäure. Sm. 175—176°. K (*B.* 36, 2933 *C.* 1903 [2] 888).
- 34) 1,2-Methylenäther d. 5-Nitro-2,4-Dioxy-1-Oxymethylbenzol. Sm. 130° (*A.* 330, 106 *C.* 1904 [1] 1076).
- 35) 6-Nitro-3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 219° (*A.* 330, 100 *C.* 1904 [1] 1076).
- 36) Aldehyd d. 2-Nitro-3,4-Dioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 148—149° (*B.* 35, 4396 *C.* 1903 [1] 340).
- 37) Aldehyd d. 5-Nitro-3,4-Dioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 113° (*B.* 35, 4398 *C.* 1903 [1] 341).
- 38) Aldehyd d. 6-Nitro-3,4-Dioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 189° (*B.* 35, 4395 *C.* 1903 [1] 340).
- 39) Methyl-2-Nitrophenylester d. Kohlensäure. Fl. (*Am.* 32, 15 *C.* 1904 [2] 695).
- 40) Methyl-4-Nitrophenylester d. Kohlensäure. Sm. 111—112° (*Am.* 32, 14 *C.* 1904 [2] 695).
- $C_8H_7O_5N_3$ 13) α -Oximido- α -[3,5-Dinitrophenyl]äthan. Sm. 122° (*J. pr.* [2] 69, 469 *C.* 1904 [2] 596).
- 14) α -Oximido- β -Nitro- α -[4-Nitrophenyl]äthan. Sm. 141° u. Zers. (*A.* 328, 230 *C.* 1903 [2] 999).
- 15) 3-Nitro-4-Amidophenylloxaminsäure. Sm. 215° (*B.* 36, 416 *C.* 1903 [1] 631).
- 16) Hydroxylamid d. 2-Nitrophenylloxaminsäure. Sm. 153° u. Zers. NH_3 , Na, K (*Soc.* 81, 1568 *C.* 1903 [1] 157).
- 17) Hydroxylamid d. 3-Nitrophenylloxaminsäure. Sm. 161° u. Zers. NH_3 , Na, K (*Soc.* 81, 1568 *C.* 1903 [1] 157).
- 18) Hydroxylamid d. 4-Nitrophenylloxaminsäure. Sm. 182° (*Soc.* 81, 1570 *C.* 1903 [1] 158).
- $C_8H_7O_6Br$ 2) 5-Brom-2,4,6-Trioxy-1-Methylbenzol-2-Carbonsäure + H_2O . Sm. 149° (159—161° wasserfrei) (*M.* 25, 315 *C.* 1904 [1] 1494).
- $C_8H_7O_6N$ 6) Methylester d. 9-Nitro-2,4-Dioxybenzol-1-Carbonsäure. Sm. 167° (*M.* 25, 33 *C.* 1904 [1] 723).
- $C_8H_7O_6N_3$ *2) 2,4,6-Trinitro-1,3-Dimethylbenzol. Sm. 176° (*G.* 33 [2] 278 *C.* 1904 [1] 265).
- 13) 2,4-Dinitrophenylamidoessigsäure. Sm. 112° (*G.* 34 [2] 222 *C.* 1904 [2] 1393).
- $C_8H_7O_6Br$ 1) Gem. Anhydrid d. Essigsäure u. β -Brom- α -Keto- γ -Oxybutan- α - γ -Dicarbonsäure- α - γ -Lakton. Sm. 86° (*R.* 23, 150 *C.* 1904 [2] 193).
- $C_8H_7O_7N_3$ *4) 2,4,6-Trinitro-5-Oxy-1,3-Dimethylbenzol. Sm. 108° (*B.* 37, 3477 *C.* 1904 [2] 1213).
- 6) Methyläther d. 2,4,6-Trinitro-3-Oxy-1-Methylbenzol. Sm. 92° (*R.* 21, 332 *C.* 1903 [1] 78).
- $C_8H_7O_8N_3$ *1) Dimethyläther d. 3,4,5[oder 3,4,6]-Trinitro-1,2-Dioxybenzol. Sm. 147° (*R.* 23, 114 *C.* 1904 [2] 205).
- *2) Dimethyläther d. 2,4,6-Trinitro-1,3-Dioxybenzol. Sm. 125° (*R.* 21, 324 *C.* 1903 [1] 79).
- $C_8H_7O_8N_5$ *2) 2,4,6-Trinitro-3-Methylnitramido-1-Methylbenzol. Sm. 101° (*R.* 21, 333 *C.* 1903 [1] 78).
- *3) 2,3,5-Trinitro-4-Methylnitramido-1-Methylbenzol. Sm. 156,5° (*J. pr.* [2] 67, 520 *C.* 1903 [2] 238).
- $C_8H_7O_9N_5$ 2) Methyläther d. 2,4,6-Trinitro-3-Methylnitramidobenzol. Sm. 98° (*R.* 8, 276; *R.* 23, 121 *C.* 1904 [2] 206).

- $C_6H_7N_2Cl$ 4) 4-Chlor-2-Methylbenzimidazol. Sm. 199° (*B.* 36, 4028 *C.* 1904 [1] 294).
- 5) Nitril d. 2-Chlorphenylamidoessigsäure. Sd. 174—175°₁₄ (*B.* 37, 4082 *C.* 1904 [2] 1723).
- $C_6H_7N_3S_2$ 3) 3-Merkapto-5-Thiocarbonyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 181° (*B.* 37, 185 *C.* 1904 [1] 670).
- $C_6H_7Cl_2Br$ 3) 3,5-Dichlor-4-Brom-1,2-Dimethylbenzol. Sm. 100°; Sd. 265—270° (*Soc.* 85, 273 *C.* 1904 [1] 806, 1008).
- 4) 3,5-Dichlor-6-Brom-1,2-Dimethylbenzol. Sm. 42° (*Soc.* 85, 280 *C.* 1904 [1] 1009).
- $C_6H_7Cl_3J_2$ 1) $\alpha\beta$ -Dichloräthyl-3-Jodphenyljodoniumchlorid. Sm. 148° (*B.* 37, 1309 *C.* 1904 [1] 1340).
- C_6H_7BrMg 1) Magnesiumbromidverbindung d. Phenyläthen (*C. r.* 135, 1347 *C.* 1903 [1] 328).
- $C_6H_5ON_2$ 17) 4-Methyl-1,3-Phenylharnstoff. Sm. oberh. 300° (*D. R. P.* 146914 *C.* 1903 [2] 1486).
- $C_6H_5OCl_2$ 7) 2-Keto-1-Dichlormethyl-1-Methyl-1,2-Dihydrobenzol. Sm. 30—33° (*B.* 35, 4214 *C.* 1903 [1] 161).
- 8) 4-Keto-1-Dichlormethyl-1-Methyl-1,4-Dihydrobenzol. Sm. 55° (*B.* 35, 4211 *C.* 1903 [1] 161).
- $C_6H_5OBr_2$ 10) *p*-Dibromoxydimethylbenzol. Sm. 96,5° (*Soc.* 83, 127 *C.* 1903 [1] 231, 449).
- 11) β -Bromäthyläther d. 2-Brom-1-Oxybenzol. Sd. 160—162°₁₈ (*B.* 36, 2874 *C.* 1903 [2] 834).
- $C_6H_5OBr_4$ 2) 3,3,5,6-Tetrabrom-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 118° (*Soc.* 83, 125 *C.* 1903 [1] 231, 449).
- $C_6H_5OJ_2$ 3) Äthyläther d. 3,4-Dijod-1-Oxybenzol. Fl. (*Bl.* [3] 29, 606 *C.* 1903 [2] 359).
- 4) Äthyläther d. 3,5-Dijod-1-Oxybenzol. Sm. 29—30° (*C. r.* 136, 237 *C.* 1903 [1] 574).
- C_6H_5OS 6) 1-Methylbenzol-2-Thiolcarbonsäure. Fl. (*B.* 36, 1012 *C.* 1903 [1] 1078).
- 7) 1-Methylbenzol-4-Thiolcarbonsäure. Sm. 43—44° (*B.* 36, 1011 *C.* 1903 [1] 1078).
- $C_6H_5O_2N_2$ *8) Benzoylharnstoff. Sm. 201° (*B.* 36, 3220 *C.* 1903 [2] 1056; *J. pr.* [2] 70, 241 *C.* 1904 [2] 1462).
- *17) Amid d. Phenylxaminsäure (*B.* 37, 3715 *C.* 1904 [2] 1449).
- *19) Diamid d. Benzol-1,2-Dicarbonsäure. Sm. 228—229° (*B.* 37, 584 *C.* 1904 [1] 940).
- *23) Phenylnitrosamid d. Essigsäure (*A.* 325, 238 *C.* 1903 [1] 631).
- *26) Verbindung (aus Acetessigsäureäthylester). Sm. 245° (*P. GUTMANN*, Dissert., Heidelberg 1903).
- 29) 2-Nitro-3-Imidomethyl-1-Methylbenzol. Sm. 140° (*C.* 1900 [2] 751).
- *III, 40.
- 30) 4-Nitro-3-Imidomethyl-1-Methylbenzol. Sm. 93° (*C.* 1900 [2] 751).
- *III, 40.
- 31) Ricinin. Sm. 201,5° (*C. r.* 138, 506 *C.* 1904 [1] 896).
- $C_6H_5O_2S$ 6) *o*-Xylylensulfon. Sm. 150—152° (*B.* 36, 188 *C.* 1903 [1] 467).
- 7) α -Merkaptophenyllessigsäure. Fl. (*C.* 1903 [2] 1272).
- $C_6H_5O_3N_2$ *14) α -Styrolnitrosit (Styrolpseudonitrosit). Sm. 129° u. Zers. (158°?) (*B.* 36, 2559 *C.* 1903 [2] 494).
- *15) α -Oximido- β -Nitro- α -Phenyläthan (β -Styrolnitrosit). Sm. 96° (*B.* 36, 2560 *C.* 1903 [2] 494).
- *56) 3-Nitro-4-Methylphenylamid d. Ameisensäure. Sm. 133—134° (*D. R. P.* 138839 *C.* 1903 [1] 427).
- 57) α -Nitroso- α -Nitro- α -Phenyläthan. Fl. (*B.* 36, 707 *C.* 1903 [1] 818).
- 58) Methyl-5-Nitro-3-Amidophenylketon. Sm. 156—158° (*J. pr.* [2] 69, 471 *C.* 1904 [2] 596).
- 59) 2-Nitro-3-Methylbenzaloxim. Sm. 104—105° (*C.* 1900 [2] 751).
- *III, 40.
- 60) 6-Nitro-3-Methylbenzaloxim. Sm. 134—135° (*C.* 1900 [2] 751).
- *III, 40.
- 61) 1-Amidoximidomethylbenzol-4-Carbonsäure. Sm. noch nicht bei 320° (*B.* 37, 3222 *C.* 1904 [2] 1121).

- $C_8H_5O_3N_2$ 62) Methylamid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 174° (R. 21, 417 C. 1903 [1] 506).
 63) Methylamid d. 4-Nitrobenzol-1-Carbonsäure. Sm. 218° (R. 21, 417).
 64) 4-Amidophenylmonamid d. Oxalsäure (4-Amidophenylloxaminsäure). Sm. noch nicht bei 280° . Ba (B. 36, 413 C. 1903 [1] 630).
 65) 5-Nitro-2-Methylphenylamid d. Ameisensäure. Sm. $178-179^\circ$ (D. R. P. 138539 C. 1903 [1] 427).
- $C_8H_5O_4N_2$ *1) 3,5-Dinitro-1,2-Dimethylbenzol. Sm. $69,5^\circ$ (C. 1903 [2] 194).
 *2) 2,4-Dinitro-1,3-Dimethylbenzol. Sm. 82° (G. 33 [2] 278 C. 1904 [1] 264).
 *4) 4,6-Dinitro-1,3-Dimethylbenzol. Sm. 93° (G. 33 [2] 278 C. 1904 [1] 264).
 *26) 3-Nitro-4-Methylamidobenzol-1-Carbonsäure. Sm. 288° (B. 37, 1029 C. 1904 [1] 1207).
 59) 4-Nitro-2-Nitromethyl-1-Methylbenzol. Sm. $58-59^\circ$ (C. 1904 [2] 199).
 60) 2-Nitro-4-Nitromethyl-1-Methylbenzol. Sm. 72° (C. 1904 [2] 199).
 61) 3,6-Dimethyl-1,2-Diazin-4,5-Dicarbonsäure + H_2O . Sm. $225-226^\circ$ u. Zers. $K_2 + 3H_2O$, $Ba + 3H_2O$, $Pb + 3H_2O$, Ag_2 (B. 36, 509 C. 1903 [1] 654).
- $C_8H_5O_4N_4$ 3) 2-Nitrophenylamidoformylharnstoff (2-Nitrophenylbiuret). Sm. 181° (Soc. 81, 1568 C. 1903 [1] 157).
 4) 3-Nitrophenylamidoformylharnstoff. Sm. 178° (Soc. 81, 1569 C. 1903 [1] 157).
 5) 4-Nitrophenylamidoformylharnstoff. Sm. 206° (Soc. 81, 1570 C. 1903 [1] 158).
 6) 2,6-Diketo-3,7-Dimethylpurin-8-Carbonsäure. Sm. 345° . K (D. R. P. 153121 C. 1904 [2] 626).
 7) Methylester d. 2,6-Diketo-3-Methylpurin-8-Carbonsäure. Sm. $290-291^\circ$ (D. R. P. 153121 C. 1904 [2] 625).
- $C_8H_5O_6N_2$ *13) β -Nitro- α -Oxy- α -[2-Nitrophenyl]äthan (Bl. [3] 29, 527 C. 1903 [2] 244).
- $C_8H_5O_5S$ *8) 1-Methylester d. Benzol-1-Carbonsäure-2-Sulfonsäure. $Na + 2H_2O$, $Ba + H_2O$, Ag (Am. 30, 270 C. 1903 [2] 1119).
 *10) 1-Methylester d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. $65-67^\circ$ (M. 23, 1112 C. 1903 [1] 396).
 *11) 3-Methylester d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. 139 bis 140° (M. 23, 1114 C. 1903 [1] 396).
 12) 1-Methylester d. Benzol-1-Carbonsäure-4-Sulfonsäure. Sm. 99 bis 100° . Ag (M. 23, 1130 C. 1903 [1] 396).
 13) 4-Methylester d. Benzol-1-Carbonsäure-4-Sulfonsäure. Sm. 195 bis 196° (M. 23, 1129 C. 1903 [1] 396).
- $C_8H_5O_6N_2$ 12) Dimethyläther d. 3,5-Dinitro-1,2-Dioxybenzol. Sm. 101° (R. 23, 112 C. 1904 [2] 205).
- $C_8H_5O_6N_4$ *5) 2,3,5-Trinitro-4-Methylamido-1-Methylbenzol. Sm. 129° (J. pr. [2] 67, 534 C. 1903 [2] 239).
 *7) 3,5-Dinitro-4-Methylnitramido-1-Methylbenzol. Sm. 137° (J. pr. [2] 67, 543 C. 1903 [2] 240).
 *8) 2,4,6-Trinitro-5-Amido-1,3-Dimethylbenzol. Sm. 206° (R. 21, 330 C. 1903 [1] 78).
 11) 2,4,6-Trinitro-3-Methylamido-1-Methylbenzol. Sm. 138° (R. 21, 332 C. 1903 [1] 78).
 12) 2,5-Dinitro-4-Methylnitramido-1-Methylbenzol. Sm. 122° (J. pr. [2] 67, 544 C. 1903 [2] 240).
- $C_8H_5O_7N_4$ *1) Methyläther d. 3,5-Dinitro-2-Methylnitramido-1-Oxybenzol. Sm. 118° (R. 23, 113 C. 1904 [2] 205).
- $C_8H_5O_8N_2$ *4) $\beta\gamma$ -Diimidobutan- $\alpha\alpha\delta\delta$ -Tetracarbonsäure (Dicyandimalonsäure) (A. 332, 126 C. 1904 [2] 189).
- $C_6H_5N_2S_2$ 4) 2,2'-Dimethylbenzobithiazol (Diäthényl-2,5-Disulphydro-p-Diamidobenzol). Sm. $98-100^\circ$ (Soc. 83, 1206 C. 1903 [2] 1328).
 5) Amid d. Phenylidithiooxaminsäure. Sm. 98° (B. 37, 3717 C. 1904 [2] 1449).
- $C_8H_5N_3Cl$ 2) 3-Chlor-4,6-Dimethyl-2,1,5-Benzotriazol. Sm. $265-266^\circ$ (B. 36, 522 C. 1903 [1] 649).

- C₈H₉ON** *10) Benzimidomethyläther. Sd. 95—97°₁₄₋₁₅. Methylsulfat (A. 333, 292 C. 1904 [2] 905).
- *11) α -Oximido- α -Phenyläthan (B. 36, 705 C. 1903 [1] 818).
- *12) β -Oximido- α -Phenyläthan. Sm. 103° (B. 37, 843 C. 1904 [1] 1144).
- *13) anti-2-Methylbenzaloxim. Sm. 49° (B. 36, 325 C. 1903 [1] 575).
- *14) anti-4-Methylbenzaloxim. Sm. 79° (B. 36, 324 C. 1903 [1] 575).
- *26) Amid d. 1-Methylbenzol-2-Carbonsäure. Sm. 147° (B. 37, 3224 C. 1904 [2] 1121).
- *27) Amid d. 1-Methylbenzol-4-Carbonsäure. Sm. 165° (B. 37, 3224 C. 1904 [2] 1121).
- *28) Amid d. Phenyllessigsäure. Sm. 155° (J. pr. [2] 69, 29 C. 1904 [1] 641).
- *34) Methylamid d. Benzolcarbonsäure. Sm. 75°; Sd. 167°₁₁ (B. 37, 2815 C. 1904 [2] 648).
- *36) Methylphenylamid d. Ameisensäure. Sd. 124,9—125,2° (B. 36, 2476 C. 1903 [2] 559).
- *47) Amid d. 1-Methylbenzol-3-Carbonsäure. Sm. 97° (B. 37, 3224 C. 1904 [2] 1121).
- 51) γ -Oxy- β -[2-Pyridyl]propen. Fl. HCl, (HCl, 6HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (B. 37, 742 C. 1904 [1] 1089).
- 52) Aldehyd d. 2-Methylamidobenzol-1-Carbonsäure. Sd. 112°₁₀ (B. 37, 981, 988 C. 1904 [1] 1079).
- C₈H₉ON₃** *9) α -Oximido- α -Phenylazoäthan. Sm. 118,5—119,5° (B. 36, 56 C. 1903 [1] 450; B. 36, 87 C. 1903 [1] 452).
- 11) Benzoylguanidin. HCl, (2HCl, PtCl₄ + H₂O) (Ar. 241, 476 C. 1903 [2] 989).
- 12) 3-Keto-4,6-Dimethyl-2,3-Dihydro-1,2,5-Benzotriazol. Sm. noch nicht bei 360°. (2HCl, PtCl₄ + 2H₂O) (B. 36, 519 C. 1903 [1] 649).
- C₈H₉OBr** 10) 5-Brom-4-Oxy-1,3-Dimethylbenzol. Sm. 4—5°; Sd. 228—230° (B. 36, 2876 Anm. C. 1903 [2] 834).
- 11) p-Bromoxydimethylbenzol. Sm. 83,5—84° (Soc. 83, 128 C. 1903 [1] 231, 449).
- C₈H₉OBr₃** 1) 3,5,6-Tribrom-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 106° (Soc. 83, 124 C. 1903 [1] 231, 449).
- C₈H₉OJ** 6) 4-Jodoso-1-Aethylbenzol. Sm. 89° (A. 327, 288 C. 1903 [2] 351).
- C₈H₉O₂N** *1) α -Nitroäthylbenzol. Sd. 115—115,5°₁₁ (B. 35, 3885 C. 1903 [1] 27; B. 36, 706 C. 1903 [1] 818).
- *15) 2-Acetyl-amido-1-Oxybenzol. Sm. 209° (205°) (B. 36, 2050 C. 1903 [2] 383; Soc. 83, 755 C. 1903 [1] 1419; C. 1903 [2] 447).
- *17) 4-Acetyl-amido-1-Oxybenzol (D.R.P. 146265 C. 1903 [2] 1227).
- *26) 2-Methyläther d. 2-Oxybenzaloxim. Sm. 92° (B. 36, 649 C. 1903 [1] 768).
- *27) 4-Methyläther d. anti-4-Oxybenzaloxim. Sm. 61° (B. 36, 648 C. 1903 [1] 768; A. 332, 320 C. 1904 [2] 651).
- *39) Phenylamidoessigsäure (D.R.P. 145376 C. 1903 [2] 1098).
- *44) 2-Methylamidobenzol-1-Carbonsäure. Sm. 182° (179°) (B. 36, 1806 C. 1903 [2] 284; D.R.P. 145604 C. 1903 [2] 1099; M. 24, 718 C. 1904 [1] 218; B. 37, 405 C. 1904 [1] 942; B. 37, 3981 C. 1904 [2] 1728).
- *61) Aethylbetaïn d. Pyridin-2-Carbonsäure (M. 24, 709 C. 1904 [1] 218).
- *64) Methyl ester d. 2-Amidobenzol-1-Carbonsäure. Sd. 126,2—126,8°₁₂ (B. 36, 2476 C. 1903 [2] 559).
- *65) Methyl ester d. 3-Amidobenzol-1-Carbonsäure. Sm. 36—38° (A. 332, 196 Anm. C. 1904 [2] 210).
- *76) Amid d. 4-Oxybenzolmethyläther-1-Carbonsäure. Sm. 166,5—167,5° (B. 36, 371 C. 1903 [1] 577).
- *77) Phenylamid d. Oxyessigsäure. Sm. 92° (A. 335, 91 C. 1904 [2] 1231).
- *80) 1-Methyl-4-Nitromethylbenzol (C. 1904 [2] 199).
- 102) Aethyläther d. 4-Nitroso-1-Oxybenzol. Sm. 33—34° (B. 37, 46 C. 1904 [1] 654).
- 103) 2-[α -Oxyäthyliden]amido-1-Oxybenzol. Sm. 190° u. Zers. (Soc. 83, 755 C. 1903 [1] 1419 C. 1903 [2] 447).

- $C_8H_9O_2N$ 104) Methyl-2-Hydroxylamidophenylketon? Sd. 127—128°₁₆ (B. 32, 3232).
— *III, 98.
105) 4-Methyläther d. isom. anti-4-Oxybenzaldoxim. Sm. 45° (B. 37, 3042 C. 1904 [2] 1214).
106) 1-Amidomethylbenzol-2-Carbonsäure. Sm. 217—220° (M. 24, 953 C. 1904 [1] 916).
107) 4-Methylamidobenzol-1-Carbonsäure. Sm. 228—229° (B. 37, 3979 C. 1904 [2] 1728).
108) Methylphenylmethylennitronsäure. Sm. 45°. Na (B. 36, 706 C. 1903 [1] 818).
109) polym. Säure (aus Hydrazin u. Diacetopropionsäureäthylester). = $(C_8H_9O_2N)_x$ (B. 37, 2189 C. 1904 [2] 240).
- $C_8H_9O_2N_3$ *2) Benzoylamidoharnstoff. Sm. 223° (A. 335, 85 C. 1904 [2] 1231).
*10) Amid d. Phenylnitrosamidoessigsäure. Sm. 143° (B. 37, 2639 C. 1904 [2] 519).
*13) Amid-Phenylhydrazid d. Oxalsäure. Sm. 231° (Soc. 81, 1566 C. 1903 [1] 157).
23) Phenylguanidin-2-Carbonsäure (o-Guanidinbenzoesäure). Sm. 260° (Am. 29, 491 C. 1903 [1] 1310).
- $C_8H_9O_2N_5$ 7) Verbindung (aus Bisdiazoacetessigsäureäthylester). Zers. oberh. 250°. NH_4 (G. 34 [1] 187 C. 1904 [1] 1332).
- $C_8H_9O_2J$ 3) Dimethyläther d. 2-Jod-1,4-Dioxybenzol. Sd. 285°₇₂₅ (A. 332, 69 C. 1904 [2] 42).
4) 4-Jodoso-1-Aethylbenzol. Sm. 196,5° (A. 327, 289 C. 1903 [2] 351).
- $C_8H_9O_3N$ *13) Aethyläther d. 2-Nitro-1-Oxybenzol. Sd. 267° (J. pr. [2] 67, 161 C. 1903 [1] 871).
*15) Aethyläther d. 4-Nitro-1-Oxybenzol. Sm. 58° (C. 1903 [2] 1051; R. 23, 37 C. 1904 [1] 1137).
*33) 4-Methoxybenzhydroxamsäure (G. 33 [2] 241 C. 1904 [1] 24).
*52) Methyl ester d. 4-Amido-3-Oxybenzol-1-Carbonsäure. Benzylsulfonat (D. R. P. 147580 C. 1904 [1] 130).
*54) Methyl ester d. 3-Amido-4-Oxybenzol-1-Carbonsäure. HCl, (2HCl, $ZnCl_2$), (2HCl, $PtCl_2$), (HCl, $HgCl_2 + H_2O$), HBr, HNO_3 , H_2SO_4 , Benzylsulfonat (A. 325, 315 C. 1903 [1] 769; D. R. P. 147580 C. 1904 [1] 130).
72) β -Nitro- α -Oxy- α -Phenyläthan. Na (A. 325, 7 C. 1903 [1] 286).
73) 1-Aethyläther d. 4-Nitroso-1,3-Dioxybenzol (J. pr. [2] 70, 316 C. 1904 [2] 1540).
74) Amidomethyl-3,4-Dioxyphenylketon. Zers. bei 300°. HCl (D. R. P. 155632 C. 1904 [2] 1487; B. 37, 4154 C. 1904 [2] 1744).
75) Dimethyläther d. 2-Oximido-5-Oxy-1-Keto-1,2-Dihydrobenzol. Sm. 115—117° (J. pr. [2] 70, 340 C. 1904 [2] 1542).
76) 5-Aethyläther d. 2-Oximido-5-Oxy-1-Keto-1,2-Dihydrobenzol. Sm. 133,5° (147—148°) (M. 19, 539; J. pr. [2] 70, 317 C. 1904 [2] 1540).
— *II, 567.
77) 3-Methylamido-4-Oxybenzol-1-Carbonsäure. Sm. 190° (A. 325, 328 C. 1903 [1] 770).
78) Aldehyd d. 2-Amido-3,4-Dioxybenzol-3-Methyläther-1-Carbonsäure. Sm. 128—129° (C. 1903 [2] 31).
79) Methyl-2-Amidophenylester d. Kohlensäure. HCl (Am. 31, 482 C. 1904 [2] 94; Am. 32, 15 C. 1904 [2] 695).
80) Methyl-4-Amidophenylester d. Kohlensäure. HCl (Am. 31, 470 C. 1904 [2] 94; Am. 32, 14 C. 1904 [2] 695).
81) Verbindung (aus Damascenin). HCl + H_2O , HJ (Ar. 242, 296 C. 1904 [2] 131).
- $C_8H_9O_3N_3$ *9) 2-Nitro-4-Acetylamido-1-Amidobenzol. Sm. 188° (B. 36, 415 C. 1903 [1] 631).
*24) 4-Nitrotrophenylhydrazid d. Essigsäure. Sm. 207° (B. 37, 3237 C. 1904 [2] 1153).
25) β -Amid d. α -Phenylhydrazin- $\alpha\beta$ -Dicarbonsäure. K, Ag (B. 37, 621 C. 1904 [1] 956).
- $C_8H_9O_3N_5$ 2) 4-Nitro-2-Nitrobenzylidenamidoharnstoff. Zers. bei 390° (B. 37, 1864 C. 1904 [1] 1600).
- $C_8H_9O_4N$ *2) Dimethyläther d. 4-Nitro-1,2-Dioxybenzol. Sm. 99° (B. 37, 2151 C. 1904 [2] 207).

- $C_8H_5O_4N$ *4) Phenylsulfonamidoessigsäure. Sm. 165—166° (*B.* 37, 4101 *C.* 1904 [2] 1727).
- $C_8H_5O_4N_2$ *30) Dimethyläther d. 4-Nitro-1,3-Dioxybenzol. Sm. 74° (*R.* 21, 322 *C.* 1903 [1] 79; *R.* 23, 119 *C.* 1904 [2] 206).
- 31) 3-Methyläther d. 2-Nitro-3,5-Dioxy-1-Methylbenzol. Sm. 129—131° (*B.* 36, 892 *C.* 1903 [1] 966).
- 32) 3-Methyläther d. 6-Nitro-3,5-Dioxy-1-Methylbenzol. Sm. 104 bis 106° (*B.* 36, 890 *C.* 1903 [1] 966).
- 33) 2,4,6-Trioxo-3-Oximidomethyl-1-Methylbenzol. Zers. bei 170° (*M.* 24, 877 *C.* 1904 [1] 369).
- 34) 2-Amido-3,5-Dioxy-1-Methylbenzol-4-Carbonsäure. $HCl + 2H_2O$ (*B.* 37, 1424 *C.* 1904 [1] 1418).
- 35) α -[2-Furanoyl]amidopropionsäure. Sm. 169°. Ba, Ag (*B.* 37, 2957 *C.* 1904 [2] 993).
- 36) Amid d. 5-Oxy-1,4-Pyronäthyläther-2-Carbonsäure (A. d. Komen-säure). Sm. 159—160° (*G.* 33 [2] 264 *C.* 1904 [1] 45).
- $C_8H_5O_4N_3$ 29) 3,4-Dinitro-1-Dimethylamidobenzol. Sm. 174—175° (*B.* 37, 2615 *C.* 1904 [2] 517).
- $C_8H_5O_5N_3$ 9) 3,5-Dinitro-4-Methylamido-2-Oxy-1-Methylbenzol. Sm. 151°. Methy-laminsalz (*J. pr.* [2] 67, 557 *C.* 1903 [2] 240).
- 10) 3,5-Dinitro-2-Methylamido-4-Oxy-1-Methylbenzol. Sm. 177° (*J. pr.* [2] 67, 551 *C.* 1903 [2] 240).
- 11) Methyläther d. 3,5-Dinitro-2-Methylamido-1-Oxybenzol. Sm. 168° (*R.* 23, 113 *C.* 1904 [2] 205).
- 12) Methyläther d. 4,6-Dinitro-3-Methylamido-1-Oxybenzol. Sm. 198° (*R.* 23, 121 *C.* 1904 [2] 206).
- $C_8H_5O_5N_4$ 2) 3,5-Dinitro-2-Amido-4-Methylnitrosamido-1-Methylbenzol. Sm. 164° (*J. pr.* [2] 67, 562 *C.* 1903 [2] 241).
- $C_8H_5O_6N_5$ *1) 2,4,6-Trinitro-1,3-Di[Methylamido]benzol. Sm. 240° (*R.* 21, 324 *C.* 1903 [1] 79).
- 3) 3,5-Dinitro-2-Amido-4-Methylnitramido-1-Methylbenzol. Sm. 178 bis 178,5° (*J. pr.* [2] 67, 522 *C.* 1903 [2] 238).
- 4) β -Nitro- $\alpha\alpha'$ -Dimethylisoallitursäure. Zers. bei 168° (*A.* 333, 125 *C.* 1904 [2] 894).
- $C_8H_5NCl_2$ 7) 3,5-Dichlor-4-Amido-1,2-Dimethylbenzol. Sm. 44,5° (*Soc.* 85, 278 *C.* 1904 [1] 1009).
- $C_8H_5NBr_2$ 2) 2,4-Dibrom-1-Dimethylamidobenzol. Sd. 275°₇₄₅. (2HCl, PtCl₄), (2HBr, Br), (2HBr, Br₂) (*B.* 37, 2342 *C.* 1904 [2] 432).
- C_8H_5NS *4) Phenylamid d. Thioessigsäure. Sm. 75° (*B.* 36, 586 *C.* 1903 [1] 830).
- 7) Phenyläther d. α -Imido- α -Merkaptoäthan. HCl (*B.* 36, 3466 *C.* 1903 [2] 1243).
- 8) Methylamid d. Benzolthiocarbonsäure. Sm. 79° (*B.* 37, 877 *C.* 1904 [1] 1004).
- $C_8H_5NS_2$ *7) Benzylester d. Amidodithioameisensäure. Sm. 90° (*C. r.* 135, 975 *C.* 1903 [1] 139).
- C_8H_5NSe 1) Amid d. 1-Methylbenzol-4-Selencarbonsäure. Sm. 161° u. Zers. (*B.* 37, 2553 *C.* 1904 [2] 520).
- $C_8H_5Cl_2Br_3$ -1) 3,5-Dichlor-2,3,4-Tribrom-1,1-Dimethyl-1,2,3,4-Tetrahydro-benzol. Sm. 118° u. Zers. (*Soc.* 85, 272 *C.* 1904 [1] 805, 1008).
- $C_8H_5Cl_2J$ *2) 1-Aethylbenzol-4-Jodidchlorid. Sm. 103° (*A.* 327, 288 *C.* 1903 [2] 351).
- $C_8H_{10}ON_2$ *1) Aethylnitrosamidobenzol. Sd. 119,5—120°₁₃ (*B.* 36, 2477 *C.* 1903 [2] 559).
- *3) 4-Nitroso-1-Dimethylamidobenzol (*Soc.* 85, 1010 *C.* 1904 [2] 704).
- *4) 2-Methylnitrosamido-1-Methylbenzol (*A.* 327, 109 *C.* 1903 [1] 1213).
- *38) s-Acetylphenylhydrazin (*C.* 1903 [1] 829).
- *43) Methyläther d. α -Imido- α -Phenylamido- α -Oxymethan. Ag (*C.* 1904 [1] 1560).
- 45) Hydrazid d. 1-Methylbenzol-2-Carbonsäure. Sm. 124° (*J. pr.* [2] 69, 368 *C.* 1904 [2] 534).
- *46) Hydrazid d. 1-Methylbenzol-3-Carbonsäure. Sm. 97° (*J. pr.* [2] 69, 369 *C.* 1904 [2] 534).
- *47) Hydrazid d. 1-Methylbenzol-4-Carbonsäure. Sm. 117° (*J. pr.* [2] 69, 369 *C.* 1904 [2] 534).

- $C_8H_{10}ON_2$ *49) Methyl-3,5-Diamidophenylketon. Sm. 133—134° (*J. pr.* [2] 69, 472 *C.* 1904 [2] 596).
 53) Formyl-2-Amidobenzylamin (*B.* 36, 807 *C.* 1903 [1] 978).
 54) Monoformyl-2,4-Diamido-1-Methylbenzol. Sm. 113—114° (*D.R.P.* 138839 *C.* 1903 [1] 427).
 55) 2-Methylamidobenzaldoxim. Sm. 50,5—51° (*B.* 37, 985 *C.* 1904 [1] 1079).
- $C_8H_{10}OBr_2$ 1) 5,6-Dibrom-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 96° (*Soc.* 83, 122 *C.* 1903 [1] 231, 449).
- $C_8H_{10}O_2N_2$ *6) 3-Nitro-1-Dimethylamidobenzol. Sm. 61° (*A.* 327, 112 *C.* 1903 [1] 1213; *B.* 37, 2616 *C.* 1904 [2] 517).
 *55) α -Phenylhydrazidoessigsäure. Sm. 168°. HCl (*B.* 36, 3879 *C.* 1904 [1] 26).
 *56) β -Phenylhydrazidoessigsäure. Sm. 172—173° u. Zers. HCl (*B.* 36, 3879 *C.* 1904 [1] 26).
 81) 3,5-Diacetyl-4-Methylpyrazol + H_2O . Sm. 76—90° (114° wasserfrei) (*A.* 325, 185 *C.* 1903 [1] 646).
 82) Methylester d. 3,4-Diamidobenzol-1-Carbonsäure. Sm. 108—109° (*D.R.P.* 151725 *C.* 1904 [1] 1588).
 83) Amid d. 3-Oxyphenylamidoessigsäure. Sm. 145° (*Bl.* [3] 29, 967 *C.* 1903 [2] 1118).
 84) Amid d. 4-Oxyphenylamidoessigsäure. Sm. 135—136° (*Bl.* [3] 29, 967 *C.* 1903 [2] 1118).
 85) Hydroxylamid d. Phenylamidoessigsäure. Sm. 118° u. Zers. (*Soc.* 81, 1574 *C.* 1903 [1] 158).
 86) Phenylhydrazid d. Oxyessigsäure. Sm. 115—120° (*H.* 38, 140 *C.* 1903 [1] 1426).
- $C_8H_{10}O_2N_4$ *8) Kaffein (*D.R.P.* 151133 *C.* 1904 [1] 1430).
 *11) Cyklohydrazid d. 3,6-Dimethyl-1,2-Dihydro-1,3-Diazin-4,5-Dicarbonsäure. Sm. oberh. 274°. HCl + H_2O (*B.* 35, 4322 *C.* 1903 [1] 337; *B.* 37, 93 *C.* 1904 [1] 589).
 21) 3-Amidobenzoylamidoharnstoff. (Kryogenin). Sm. 205° (*C.* 1904 [1] 544).
 22) Monophenyldihydrazid d. Oxalsäure. Sm. 205—206° (*B.* 37, 2425 *C.* 1904 [2] 341).
- $C_8H_{10}O_2N_6$ *1) 1,4-Disemicarbazon-1,4-Dihydrobenzol. Zers. bei 241° (*A.* 334, 186 *C.* 1904 [2] 835).
- $C_8H_{10}O_2S_2$ 2) 1,3-Dimethylbenzol-4-Thiolsulfonsäure. p-Phenylendiaminsalz (*J. pr.* [2] 70, 392 *C.* 1904 [2] 1721).
- $C_8H_{10}O_3N_2$ *3) Aethyläther d. 5-Nitro-2-Amido-1-Oxybenzol. Sm. 91° (*B.* 36, 4125 *C.* 1904 [1] 273).
 *12) Aethylester d. δ -Cyan- δ -Imido- β -Ketobutan- γ -Carbonsäure. (Ae. d. α -Dicyanacetessigsäure). Sm. 122° (*A.* 332, 133 *C.* 1904 [2] 190).
 18) 3-Methyläther d. 2-Amido-3,4-Dioxy-1-Oximidomethylbenzol. Sm. 151—152° (*C.* 1903 [2] 31).
 19) 3-Acetyl-1,4-Dimethylpyrazol-5-Carbonsäure. Sm. 185—186° (*B.* 36, 1130 *C.* 1903 [1] 1138).
 20) Methylester d. 3-Acetyl-4-Methylpyrazol-5-Carbonsäure. Sm. 152° (*B.* 36, 1129 *C.* 1903 [1] 1138).
 21) Aethylester d. β -Dicyanacetessigsäure. Sm. 178° (*A.* 332, 136 *C.* 1904 [2] 190).
 22) Aethylester d. γ -Dicyanacetessigsäure. Sm. 211° (*A.* 332, 137 *C.* 1904 [2] 190).
- $C_8H_{10}O_3S$ *8) 1,4-Dimethylbenzol-2-Sulfonsäure. Na + H_2O (*C.* 1903 [2] 1051).
 20) Methylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 28° (*A.* 327, 121 *C.* 1903 [1] 121).
- $C_8H_{10}O_4N_2$ 6) Dimethyläther d. 5-Nitro-2-Amido-1,4-Dioxybenzol. Sm. 158° (*D.R.P.* 141398 *C.* 1903 [1] 1163; *D.R.P.* 141975 *C.* 1903 [1] 1380).
 7) α -Cyan- α -Oxyessig-[β -Cyan- α -Aethoxyläthyl]äthersäure. Sm. 142° (*C.* 1904 [1] 159).
- $C_8H_{10}O_4N_4$ 5) 3,5-Dinitro-2-Amido-5-Methylamido-1-Methylbenzol. Sm. 206 bis 208° (*J. pr.* [2] 67, 535 *C.* 1903 [2] 239).
 6) $\alpha\alpha'$ -Dimethylisoallitursäure. Sm. 208—210° (*A.* 333, 121 *C.* 1904 [2] 894).

- $C_8H_{10}O_4S$ *16) 4-Oxy-1-Methylbenzolmethyläther-3-Sulfonsäure. Sm. 105—108°. Na + $\frac{1}{2}H_2O$, K + $2H_2O$, Mg + $8H_2O$, Ca + $12H_2O$, Ba, Cu + $6\frac{1}{2}H_2O$, Zn + $6\frac{1}{2}H_2O$, Pb + $3H_2O$ (*Am.* 31, 28 *C.* 1904 [1] 441).
- $C_8H_{10}O_4S_2$ 2) 1,3-Di[Methylsulfon]benzol. Sm. 195—196° (*J. pr.* [2] 68, 320 *C.* 1903 [2] 1170).
- 3) 1,4-Di[Methylsulfon]benzol. Sm. 255—256° (*J. pr.* [2] 68, 331 *C.* 1903 [2] 1171).
- 4) Dimethylester d. Benzol-1,3-Disulfinsäure. Fl. (*J. pr.* [2] 68, 319 *C.* 1903 [2] 1170).
- $C_8H_{10}O_5N_2$ C 44,8 — H 4,7 — O 37,4 — N 13,1 — M. G. 214.
- 1) Methylester d. $\delta\epsilon$ -Dinitroso- γ -Methylpentan- β -Carbonsäure. Sm. 169° (*Soc.* 83, 1239 *C.* 1903 [2] 1421).
- $C_8H_{10}O_6N_2$ *2) Diäthylester d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsäure (*Bl.* [3] 27, 1165 *C.* 1903 [1] 228; *Bl.* [3] 31, 848 *C.* 1904 [2] 640; *C.* 1904 [2] 1537).
- *3) Diäthylester d. Bisanhydronitroessigsäure (*Bl.* [3] 31, 679 *C.* 1904 [2] 195).
- $C_8H_{10}NBr$ *4) 4-Brom-1-Dimethylamidobenzol. (HBr, Br), (HBr, Br₂) (*B.* 37, 2341 *C.* 1904 [2] 432).
- $C_8H_{10}NJ$ 3) 2-[β -Jodpropyl]pyridin. Fl. (*B.* 37, 174 *C.* 1904 [1] 673).
- $C_8H_{10}N_2J_2$ 1) Di[Jodmethylat] d. 1,4-Dimethylhexahydro-1,4-Diazin. Zers. bei 300° (*B.* 36, 144 *C.* 1903 [1] 526).
- $C_8H_{10}N_2S$ 7) α -Imido- β -Phenylamido- α -Merkaptoäthan. Sm. 165° (*B.* 36, 4302 *C.* 1904 [1] 447).
- 8) Methyläther d. Phenylamidoimidomerkaptomethan. Sm. 71°. (2HCl, PtCl₄), HJ, HNO₃, Acetat, Pikrat (*B.* 25, 49; *Soc.* 83, 554 *C.* 1903 [1] 1123). — II, 390.
- 9) Amid d. 4-Amidophenylthioessigsäure. Sm. 173° (*B.* 35, 3938 *C.* 1903 [1] 38).
- $C_8H_{10}N_2S_2$ *6) Methylester d. β -Phenylhydrazidodithioameisensäure. Sm. 136° (*J. pr.* [2] 67, 248 *C.* 1903 [1] 1264; *B.* 36, 1365 *C.* 1903 [1] 1341).
- $C_8H_{10}N_4S$ 3) Amid d. Methylphenylamidoazothiocarbonsäure. Sm. 97° (*B.* 37, 2381 *C.* 1904 [2] 322).
- $C_8H_{10}N_4S_2$ *1) 1,3-Phenylendithioharnstoff (D.R.P. 139429 *C.* 1903 [1] 904).
- $C_8H_{10}Cl_2Br_2$ 1) 3,5-Dichlor-2,5-Dibrom-1,1-Dimethyl-1,2,3,4-Tetrahydrobenzol. Fl. (*Soc.* 85, 279 *C.* 1904 [1] 1009).
- $C_8H_{10}Cl_2Si$ 1) Siliciumäthylphenyldichlorid. Sd. 228—230° (*C.* 1904 [1] 637).
- $C_8H_{11}ON$ *11) Methyläther d. 2-Amido-1-Oxymethylbenzol. Oxalat (*C. r.* 137, 522 *C.* 1903 [2] 1060).
- *13) Methyläther d. 4-Oxy-1-Amidomethylbenzol (*B.* 36, 371 *C.* 1903 [1] 577).
- *44) 4-Dimethylamido-1-Oxybenzol. Sm. 75° (*A.* 334, 309 *C.* 1904 [2] 986).
- *22) Äthyläther d. 4-Amido-1-Oxybenzol. Sd. 120—122°₁₀ (*B.* 36, 4102 *Ann.* *C.* 1904 [1] 271; *C. r.* 138, 1038 *C.* 1904 [1] 1490; *B.* 36, 2966 *C.* 1903 [2] 1007).
- *40) 4-Keto-1,2,6-Trimethyl-1,4-Dihydropyridin + $3H_2O$. Sm. 110° (*A.* 331, 256 *C.* 1904 [1] 1223).
- *45) 4-Imido-1-Oxy-1,3-Dimethyl-1,4-Dihydrobenzol. HCl (*B.* 35, 3889 *C.* 1903 [1] 26).
- 55) β -Amido- α -Oxy- α -Phenyläthan. (2HCl, PtCl₄), Pikrat (*B.* 37, 2483 *C.* 1904 [2] 420).
- 56) 2-Methyl-6-[β -Oxyäthyl]pyridin. Fl. (2HCl, PtCl₄), (HCl, AuCl₃) (*B.* 36, 2907 *C.* 1903 [2] 890).
- $C_8H_{11}ON_3$ *16) α -Amido- α -Benzylharnstoff. Sm. 127—128° (*B.* 37, 2325 *C.* 1904 [2] 312).
- 19) α -Amido- α -Methyl- β -Phenylharnstoff. Sm. 93—94° (*B.* 37, 2324 *C.* 1904 [2] 312).
- 20) 3-Methylphenylamidoharnstoff (Maretin). Sm. 183—184° (*C.* 1904 [2] 359).
- 21) 1-Acetylamido-2,4-Diamidobenzol. Sm. 158—159° (D.R.P. 151204 *C.* 1904 [1] 1382).
- 22) α -Oximido- α -Amido- α -Methylphenylamidomethan (uns-Methylphenylharnstoffoxim). Sm. 102°. HCl, Pikrat (*B.* 36, 3661 *C.* 1903 [2] 1324).

- $C_8H_{11}ON_3$ 23) α -Oximido- α -Amido- β -Phenylamidoäthan. Sm. 147—148° (B. 36, 4304 C. 1904 [1] 447).
- 24) Inn. Anhydrid d. 2-Semicarbazon-1-Oxymethylenhexahydrobenzol. Sm. 183—185° (und 220°) (A. 329, 117 C. 1903 [2] 1322).
- 25) Inn. Anhydrid d. 3-Semicarbazon-4-Oxymethylen-1-Methyl-R-Pentamethylen. Sm. 115—116° (A. 329, 116 C. 1903 [2] 1322).
- $C_8H_{11}OCl$ *1) Chlorid d. α -Heptin- α -Carbonsäure. Sd. 84,5—87°₁₃ (Bl. [3] 29, 656 C. 1903 [2] 487).
- 3) 6-Chlor-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sd. 109°₁₄ (Soc. 83, 117 C. 1903 [1] 230, 448).
- $C_8H_{11}OBr$ 1) 6-Brom-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sd. 129°₂₅ (Soc. 83, 120 C. 1903 [1] 231, 448).
- $C_8H_{11}O_2N$ *2) 3-Methyläther d. 6-Amido-3,5-Dioxy-1-Methylbenzol. HCl (B. 36, 891 C. 1903 [1] 966).
- *6) 1-Aethyläther d. 4-Amido-1,3-Dioxybenzol. HCl (J. pr. [2] 70, 325 C. 1904 [2] 1541).
- *22) 2-[$\beta\beta$ -Dioxyisopropyl]pyridin. Sm. 78° (HCl, 6HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (B. 37, 738 C. 1904 [1] 1069).
- 25) 3-Methyläther d. 2-Amido-3,5-Dioxy-1-Methylbenzol. HCl (B. 36, 893 C. 1903 [1] 966).
- 26) 1-Methyläther d. 5-Amido-2-Oxy-1-Oxymethylbenzol. Sm. 124 bis 126° (D. R. P. 148977 C. 1904 [1] 699).
- 27) 4-Aethyläther d. 4-Oxyphenylhydroxylamin. Sm. 91,5—92° (B. 37, 45 C. 1904 [1] 654).
- 28) 1,2,5-Trimethylpyrrol-3-Carbonsäure. Zers. bei 175° (C. 1903 [2] 1281).
- 29) Methylester d. 2,5-Dimethylpyrrol-3-Carbonsäure. Sm. 119,5°; Sd. 170°₁₅ (B. 37, 2196 C. 1904 [2] 240).
- 30) Imid d. β -Hexen- $\beta\gamma$ -Dicarbonsäure. Sm. 56—57° (B. 37, 2472 C. 1904 [2] 306).
- 31) Imid d. δ -Methyl- β -Penten- $\beta\gamma$ -Dicarbonsäure. Sm. 44—45° (B. 37, 2473 C. 1904 [2] 306).
- 32) Imid einer Säure $C_8H_{12}O_4$ (aus Hämopyrrol). Sm. 63—64° (B. 37, 2472 C. 1904 [2] 306).
- $C_8H_{11}O_2N_3$ 10) 4-Nitro-1,2-Di[Methylamido]benzol. Sm. 172° (B. 36, 3969 C. 1904 [1] 177).
- 11) 4-Dimethylamidophenylnitrosohydroxylamin. Ba + 2H₂O (G. 34 [2] 74 C. 1904 [2] 734).
- $C_8H_{11}O_3N$ 24) trans-4-Cyan-4-Oxyhexahydrobenzol-1-Carbonsäure. Sm. 140° (Soc. 85, 434 C. 1904 [1] 1082, 1440).
- $C_8H_{11}O_3P$ 10) Methylphenylcarbinolunterphosphorigesäure. Sm. 70° (85°). Pb (C. r. 137, 125 C. 1903 [2] 554; C. 1904 [2] 1708).
- $C_8H_{11}O_4N$ 11) γ -Cyan- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 132—133°. K₂ (Soc. 83, 356 C. 1903 [1] 389, 1122).
- $C_8H_{11}O_4P$ 3) Oxyphosphinsäure (aus d. Säure $C_8H_{11}O_3P$). Sm. 170°. HBr (C. r. 137, 125 C. 1903 [2] 554).
- 4) Säure (aus Benzaldehyd). Sm. 154° (C. r. 138, 1709 C. 1904 [2] 423).
- $C_8H_{11}O_5Br$ *2) Diäthylester d. Bromoxallessigsäure. Sd. 140—145°₁₁ (B. 36, 1732 C. 1903 [2] 38).
- $C_8H_{11}O_6N$ *1) Diäthylester d. Oxalaminsäure. Sm. 71—72°; Sd. 190°₁₂₋₁₃ (B. 37, 3679 C. 1904 [2] 1495).
- $C_8H_{11}O_6P$ 1) 4-Methoxybenzaldehydphosphorsäure (Ch. Z. 25, 1135). — *III, 59.
- $C_8H_{11}O_7Br_8$ 1) Urobromalsäure (C. 1903 [1] 781).
- $C_8H_{11}O_8N_3$ C 34,6 — H 4,0 — O 46,2 — N 15,2 — M. G. 277.
- 1) Dimethyläther d. Nitrodioxydichinolnitrosäure. Na₂ (Am. 29, 115 C. 1903 [1] 709).
- $C_8H_{11}NS$ *4) Methyläther d. 4-Merkapto-2,6-Dimethylpyridin. Sm. 51°; Sd. 233° (A. 331, 259 C. 1904 [1] 1223).
- 5) 4-Thiocarbonyl-1,2,6-Trimethyl-1,4-Dihydropyridin. Sm. 267 bis 268°. HCl (A. 331, 256 C. 1904 [1] 1223).
- $C_8H_{11}NSe$ 1) 1,2,6-Trimethylselenopyrintrioxyd. Sm. 268° (A. 331, 261 C. 1904 [1] 1223).
- 2) Methyläther d. 4-Seleno-2,6-Dimethylpyridin. Sm. 70°. HCl, (2HCl, PtCl₄) (A. 331, 263 C. 1904 [1] 1223).

- $C_8H_{11}N_2Cl$ 3) 4-Chlor-1,2-Di[Methylamido]benzol. Sm. 61° (B. 37, 557 C. 1904 [1] 893).
- $C_8H_{11}N_8S$ *1) α -Amido- α -Methyl- β -Phenylthioharnstoff (B. 37, 2321 C. 1904 [2] 311).
 *3) α -Amido- α -Phenyl- β -Methylthioharnstoff. Sm. 91°. HCl (B. 37, 2331 C. 1904 [2] 314).
 8) 3[oder 5]-Amido-4[oder 2]-Methylphenylthioharnstoff. Sm. 107° (D.R.P. 152027 C. 1904 [2] 274).
- $C_8H_{12}ON_2$ 24) Nitril d. δ -Oxy- β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 165—166° (Soc. 85, 1223 C. 1904 [2] 1108).
- $C_8H_{12}ON_4$ 2) 4-Semicarbazido-2,6-Dimethylpyridin. Sm. 268—269° u. Zers. (2HCl, PtCl₄) (B. 36, 1117 C. 1903 [1] 1185).
- $C_8H_{12}O_2N_2$ *16) 3-Methyl-5-Propylpyrazol-4-Carbonsäure. Sm. 228° u. Zers. (Bl. [3] 27, 1099 C. 1903 [1] 227).
 17) 2-Methyläther d. 2,6-Dioxy-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 210°. HCl (C. 1904 [2] 30).
 18) Inn. Anhydrid d. i - α -[2-Pyrroloylamido]propionsäure (Prolylalanin-anhydrid). Sm. 126—129° (B. 37, 2847 C. 1904 [2] 644).
 19) Nitril d. Oxyessig- $[\beta$ -Cyan- α -Aethoxylpropyl]äthersäure. Sm. 121° (C. 1904 [1] 159).
 20) Methylester d. α -Cyan- β -Aethylamidopropen- α -Carbonsäure. Sm. 73° (Bl. [3] 31, 341 C. 1904 [1] 1135).
 21) Verbindung (aus d. Säure $C_8H_{12}O_2N_2$) = $(C_8H_{12}O_2N_2)_x$ (C. 1904 [1] 159).
- $C_8H_{12}O_2N_4$ 5) 3,5-Di[α -Oximidoäthyl]-4-Methylpyrazol + $\frac{1}{2}H_2O$. Sm. 217° (A. 325, 186 C. 1903 [1] 647).
- $C_8H_{12}O_2Cl_4$ 1) bim. Äthyläther d. $\beta\beta$ -Dichlor- α -Oxyäthan. Sd. 187—192°₃₀ (G. 33 [2] 385 C. 1904 [1] 921).
- $C_8H_{12}O_2Br_2$ 4) 1,2-Dibrom-1-Methylhexahydrobenzol-4-Carbonsäure. Sm. 104° (Soc. 85, 665 C. 1904 [2] 330).
- $C_8H_{12}O_8N_2$ *2) 2,4,6-Triketo-5,5-Diäthylhexahydro-1,3-Diazin. Sm. 191° (D.R.P. 146496 C. 1903 [2] 1483; D.R.P. 146949 C. 1904 [1] 68; D.R.P. 147278 C. 1904 [1] 68; D.R.P. 147279 C. 1904 [1] 68).
 *2) 2,4,6-Triketo-5,5-Diäthylhexahydro-1,3-Diazin (Diäthylmalonylharnstoff; Veronal). Sm. 191°. Na (C. 1903 [1] 1155; D.R.P. 144432 C. 1903 [2] 778; Ar. 242, 401 C. 1904 [2] 1005; A. 335, 338 C. 1904 [2] 1380).
 11) 2,4,6-Triketo-5-Methyl-5-Propylhexahydro-1,3-Diazin. Sm. 182° (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 344 C. 1904 [2] 1381).
- $C_8H_{12}O_8N_4$ 4) 5-Oximido-6-Imido-2,4-Diketo-1,3-Diäthylhexahydro-1,3-Diazin + H_2O (C. 1904 [2] 1497).
- $C_8H_{12}O_4N_2$ *1) Tetraacetylhydrazin. Sm. 85°; Sd. 141°₁₅ (J. pr. [2] 69, 148 C. 1904 [1] 1274).
 *5) Diäthylester d. Diazobernsteinsäure. Fl. (B. 37, 1264 C. 1904 [1] 1333).
 8) α -Amid d. α -Imido- γ -Ketobutan- $\alpha\beta$ -Dicarbonsäure- β -Aethylester. Sm. 142° (A. 332, 134 C. 1904 [2] 190).
 C 37,5 — H 4,7 — O 25,0 — N 32,8 — M. G. 256.
- $C_8H_{12}O_4N_6$ 1) Amid d. Diazoacetyl[Amidoacetyl]amidoessigsäure. Sm. 240° u. Zers. (B. 37, 1296 C. 1904 [1] 1336).
- $C_8H_{12}O_4Br_2$ 10) cis - $\gamma\delta$ -Dibrom- β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 168° u. Zers. (Soc. 85, 158 C. 1904 [1] 720).
 11) $trans$ - $\gamma\delta$ -Dibrom- β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 205—207° (Soc. 83, 779 C. 1903 [2] 191, 423).
- $C_8H_{12}O_6N_2$ 2) 1-Nitrosocincholoiponsäure. Sm. 173—174° (B. 30, 1333). — *III, 635.
 C 35,3 — H 4,4 — O 29,4 — N 30,9 — M. G. 272.
- $C_8H_{12}O_6N_6$ 1) Azid d. Oxyacetyl[Amidoacetyl]amidoessigsäure. Sm. 79—80° (B. 37, 1297 C. 1904 [1] 1336).
- $C_8H_{12}O_6N_2$ *6) Diäthylester d. Oxalyl[Amidoameisensäure]. Sm. 173° (B. 36, 746 C. 1903 [1] 827).
 9) Aethylenester d. Acetylamidoameisensäure. Sm. 174° (B. 36, 3217 C. 1903 [2] 1056).
- $C_8H_{12}O_7N_2$ 2) Methylester d. $\delta\epsilon$ -Dinitro- γ -Keto- β -Methylpentan- β -Carbonsäure. Sm. 142—143° (Soc. 83, 1238 C. 1903 [2] 1420).

- $C_8H_{12}O_8N_2$ C 36,4 — H 4,5 — O 48,5 — N 10,6 — M. G. 264.
 1) $\beta\gamma$ -Diamidobutan- $\alpha\alpha\delta\delta$ -Tetracarbonsäure. Ag_2 (B. 35, 4124 C. 1903 [1] 135).
- $C_8H_{12}O_{10}N_2$ *1) Diäthylester d. Dinitroweinsäure. Sm. 27° (Soc. 83, 161 C. 1903 [1] 627).
- $C_8H_{13}ON$ 26) 5-Amylloxazol. Sd. 87—87,5¹⁴ (C. r. 138, 1341 C. 1904 [2] 187).
 27) Amid d. α -Heptin- α -Carbonsäure. Sm. 91—92° (C. r. 136, 553 C. 1903 [1] 824).
- $C_8H_{13}ON_3$ *1) 1-Semicarbazon-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 194—195° (A. 329, 375 C. 1904 [1] 517).
 3) 4-Semicarbazon-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 211—212° (A. 329, 374 C. 1904 [1] 517).
 4) 3-Semicarbazon-1-Methyl- β -Tetrahydrobenzol. Sm. 207—208° (C. 1903 [1] 329).
 5) Amid d. 3-Methyl-5-Propylpyrazol-1-Carbonsäure (oder A. d. 5-Methyl-3-Propylpyrazol-1-Carbonsäure). Sm. 95° (Bl. [3] 27, 1088 C. 1903 [1] 226).
- $C_8H_{13}OBr_3$ 1) Verbindung (aus α -Camphylsäure). Sd. 155—160° u. Zers. (Soc. 83, 859 C. 1903 [2] 573).
- $C_8H_{13}O_2N$ 24) Verbindung (aus Dimethylamin u. 1,2-Dioxybenzol). Sm. 115° (D.R.P. 141101 C. 1903 [1] 1058).
 25) Verbindung (aus Dimethylamin u. 1,3-Dioxybenzol). Sm. 82° (D.R.P. 141101 C. 1903 [1] 1058).
 26) Verbindung (aus Dimethylamin u. 1,4-Dioxybenzol). Sm. 132° (D.R.P. 141101 C. 1903 [1] 1058).
- $C_8H_{13}O_2N_3$ C 52,4 — H 7,1 — O 17,5 — N 23,0 — M. G. 183.
 1) 6-Imido-2,4-Diketo-1,3-Diäthylhexahydro-1,3-Diazin. Sm. 137°. HCl. H_3PO_4 (C. 1904 [2] 1497).
 2) 2-Imido-4,6-Diketo-5,5-Diäthylhexahydro-1,3-Diazin (A. 335, 352 C. 1904 [2] 1381).
- $C_8H_{13}O_2Br$ 10) β -Brom- ϵ -Methyl- β -Hexen- α -Carbonsäure. Sm. 14—15° (A. 331, 147 C. 1904 [1] 933).
 11) 1-Brom-1-Methylhexahydrobenzol-4-Carbonsäure. Sm. 126° (Soc. 85, 663 C. 1904 [2] 330).
 12) 5-Brom-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Fl. (Soc. 85, 142 C. 1904 [1] 728).
- $C_8H_{13}O_3N$ *4) Mesitylsäure (Soc. 85, 1224 C. 1904 [2] 1108).
 *11) Methylester d. 1-5-Keto-1-Methyltetrahydropyrrol-2-Methylcarbonsäure (M. d. l-Egoninsäure). Sd. 159°^{13,5} (A. 326, 90 C. 1903 [1] 842).
 12) 5-Oximido-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 195° (Soc. 85, 139 C. 1904 [1] 728).
 13) Methylester d. r-5-Keto-1-Methyltetrahydropyrrol-2-Methylcarbonsäure. Sd. 165—170°¹⁹ (A. 326, 89 C. 1903 [1] 842).
 14) Verbindung (aus Dimethylamin u. 1,2,3-Trioxybenzol). Sm. 163° (D.R.P. 141101 C. 1903 [1] 1058).
- $C_8H_{13}O_3N_3$ 8) 4-Semicarbazonhexahydrobenzol-1-Carbonsäure. Zers. bei 200° (Soc. 85, 427 C. 1904 [1] 1439).
 9) Verbindung (aus α -Dicyanacetessigsäureäthylester). Zers. bei 209—211° (A. 332, 134 C. 1904 [2] 190).
- $C_8H_{13}O_4N$ 14) Methylester d. α -Butyroximidopropionsäure. Sd. 153—155°¹⁸ (Bl. [3] 31, 1070 C. 1904 [2] 1457).
- $C_8H_{13}O_5N$ 4) Verbindung (aus Dimethylamin u. 3,4,5-Trioxybenzol-1-Carbonsäure) (D.R.P. 141101 C. 1903 [1] 1058).
- $C_8H_{13}O_6N$ 2) Diäthylester d. α -Nitroäthan- $\alpha\alpha$ -Dicarbonsäure (C. 1903 [2] 343).
- $C_8H_{13}O_7N$ *1) Nitrat d. 1- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäurediäthylester. Sd. 148 bis 151°²⁵ (B. 35, 4364 C. 1903 [1] 321).
- $C_8H_{13}O_8N$ C 38,2 — H 5,2 — O 41,0 — N 5,6 — M. G. 251.
 1) Diäthylester d. Mononitroweinsäure. Sm. 46—47° (45—46°) (B. 3, 533; A. ch. [4] 28, 428; Soc. 83, 163 C. 1903 [1] 627; B. 35, 4366 C. 1903 [1] 321; B. 36, 780 C. 1903 [1] 826). — I, 796.
- $C_8H_{13}N_3J$ *3) Jodmethylester d. s-Methylphenylhydrazin (C. r. 137, 330 C. 1903 [2] 716).
- $C_8H_{14}ON_2$ *5) 5-Keto-3-Amyl-4,5-Dihydropyrazol. Sm. 195° (C. r. 136, 755 C. 1903 [1] 1019; Bl. [3] 27, 1092 C. 1903 [1] 226).

- $C_8H_{11}ON_2$ *6) 5-Keto-4-Aethyl-3-Propyl-4,5-Dihydropyrazol. Sm. 165—166° (*Bl.* [3] 31, 593 *C.* 1904 [2] 26).
 9) 5-Keto-3-Methyl-4-Isobutyl-4,5-Dihydropyrazol. Sm. 237° (*Bl.* [3] 31, 761 *C.* 1904 [2] 343).
 10) 2,5-Dipropyl-1,3,4-Oxdiazol. *Sd.* 227° (*J. pr.* [2] 69, 491 *C.* 1904 [2] 599).
 11) 2,5-Diisopropyl-1,3,4-Oxdiazol. *Sd.* 209° (*J. pr.* [2] 69, 500 *C.* 1904 [2] 600).
 12) Amid d. ϵ -Cyan- β -Methylpentan- ϵ -Carbonsäure. Sm. 142,5° (*C.* 1903 [2] 193).
- $C_8H_{14}O_2N_2$ 13) Monomethylacetylhydrazon d. $\beta\gamma$ -Diketopentan. Sm. 47° (*B.* 36, 3189 *C.* 1903 [2] 939).
 14) Aethylester d. α -Diazopentan- α -Carbonsäure. *Sd.* 70—73°₁₂ (*B.* 37, 1275 *C.* 1904 [1] 1334).
- $C_8H_{14}O_2N_4$ 6) 5,6-Diamido-2,4-Diketo-1,3-Diäthyl-1,2,3,4-Tetrahydro-1,3-Diazin (*C.* 1904 [2] 1497).
- $C_8H_{14}O_3N_2$ 4) i- α -[2-Pyrroloylamido]propionsäure (Prolylamin). Sm. 225—230° (*B.* 37, 2845 *C.* 1904 [2] 644).
 5) Methylamid d. β -Imidopropan- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Sm. 124—126° (*A.* 329, 347 *C.* 1904 [1] 435).
 6) Methylmonamid d. 1-Methyltetrahydropyrrol-2,2-Dicarbonsäure. Sm. 137° u. Zers. (*A.* 326, 113 *C.* 1903 [1] 843).
- $C_8H_{14}O_3Cl_4$ 1) Diäthyläther d. Di[$\beta\beta$ -Dichlor- α -Oxyäthyl]äther. *Sd.* 183—188° (*G.* 33 [2] 405 *C.* 1904 [1] 922).
- $C_8H_{14}O_4N_2$ 7) Diäthylester d. bim. Methylenamidoameisensäure (Anhydroformaldehydurethan). Sm. 102° (100°); *Sd.* 186—190°₂₀ (*B.* 36, 2207 *C.* 1903 [2] 423; *B.* 36, 40 *C.* 1903 [1] 502).
 8) Monoureid d. Pentan- $\gamma\gamma$ -Dicarbonsäure. Sm. 162° u. Zers. (*D.R.P.* 144431 *C.* 1903 [2] 813; *A.* 335, 362 *C.* 1904 [2] 1382).
- $C_8H_{14}O_4S$ 6) 5-Keto-1,3-Dimethylhexahydrobenzol-1-Sulfonsäure. Na (*B.* 37, 4041 *C.* 1904 [2] 1647).
- $C_8H_{14}O_5N_2$ 3) N-Aethylester d. α -Carboxylamidoacetylamidopropionsäure (Carbäthoxylglycylalanin). Sm. 187,5—188,5° (*B.* 36, 2111 *C.* 1903 [2] 345; *B.* 37, 2491 *C.* 1904 [2] 424).
- $C_8H_{14}O_5N_4$ C 39,0 — H 5,7 — O 32,5 — N 12,8 — M. G. 246.
 1) Tri[Amidoacetyl]amidoessigsäure. Zers. oberh. 220°. Cu + H₂O (*B.* 37, 1294 *C.* 1904 [1] 1336; *B.* 37, 2502 *C.* 1904 [2] 426).
- $C_8H_{14}NBBr$ 4) Bromtropan (Tropidinhydrobromid). *Sd.* 109—109,5°_{17,5}. (2HCl, PtCl₄), (HCl, AuCl₃), HBr (*A.* 326, 31 *C.* 1903 [1] 778).
- $C_8H_{14}NJ$ 2) Jodtropan. HJ (*A.* 326, 30 *C.* 1903 [1] 778).
- $C_8H_{14}N_2S$ 5) 2,5-Dipropyl-1,3,4-Thiodiazol. *Sd.* 127°₁₃ (*J. pr.* [2] 69, 492 *C.* 1904 [2] 600).
 6) 2,5-Diisopropyl-1,3,4-Thiodiazol. *Sd.* 126°₂₇ (*J. pr.* [2] 69, 502 *C.* 1904 [2] 600).
- $C_8H_{15}ON$ *22) Tropin (*A.* 326, 23 *C.* 1903 [1] 778).
 *27) Pseudotropin. Sm. 108—109°; *Sd.* 240—241°. Pikrat (*A.* 326, 36 *C.* 1903 [1] 779).
 47) 3-Methylamido-1-Oxy-2,3,4,5-Tetrahydro-R-Hepten. Sm. 103 bis 104° (*A.* 326, 22 *C.* 1903 [1] 778).
 48) r-5-Oximido-1,1,2-Trimethyl-R-Pentamethylen. Sm. 105° (*C. r.* 136, 1143 *C.* 1903 [1] 1410).
 49) 2-Oximido-1,1,3-Trimethyl-R-Pentamethylen. Sm. 60—62° (*A.* 329, 95 *C.* 1903 [2] 1071).
 50) Oxim d. Verbindung C₈H₁₄O (aus $\alpha\gamma$ -Dioxybutan). *Sd.* 180° (*M.* 25, 9 *C.* 1904 [1] 716).
 51) Anhydrid d. i-Amidolauronsäure. Sm. 209° (*Am.* 28, 485 *C.* 1903 [1] 329).
- $C_8H_{15}ON_3$ *2) 2-Semicarbazon-1-Methylhexahydrobenzol. Sm. 191—192° (*A.* 329, 376 *C.* 1904 [1] 517).
 11) Semicarbazonmethylhexahydrobenzol. Sm. 176° (*Bl.* [3] 29, 1050 *C.* 1903 [2] 1437).
 12) Isopropylidenhydrazid d. Isopropylidenamidoessigsäure. Sm. 79° (*J. pr.* [2] 70, 104 *C.* 1904 [2] 1036).

- $C_8H_{15}OJ$ 2) Aethyläther d. 2-Jod-1-Oxyhexahydrobenzol. Sd. 118°₄₇ (C. r. 135, 1057 C. 1903 [1] 233).
- $C_8H_{15}O_2N$ *4) γ -Oximido- β -Ketooktan. Sm. 54°; Sd. 133°₁₁ (Bl. [3] 31, 1167 C. 1904 [2] 1700).
- *5) β -Oximido- γ -Ketooktan. Sm. 39°; Sd. 139°₁₀ (Bl. [3] 31, 1168 C. 1904 [2] 1700).
- *21) Imid d. Isobuttersäure. Sm. 173—174° (C. r. 137, 129 C. 1903 [2] 552).
- 32) ϵ -Oximido- δ -Ketooktan. Sd. 117—120°₁₂ (Bl. [3] 31, 1166 C. 1904 [2] 1700).
- 33) γ -Oximido- δ -Keto- β -Methylheptan. Sd. 115—119°₁₄ (Bl. [3] 31, 1166 C. 1904 [2] 1700).
- 34) ϵ -Oximido- δ -Keto- β -Methylheptan. Sm. 38—39°; Sd. 117—118°₁₁ (Bl. [3] 31, 1166 C. 1904 [2] 1700).
- 35) Methylbetain d. Hexahydropyridin-N-Methylcarbonsäure. Sm. 116—118° (HCl, AuCl₃) (B. 36, 4193 C. 1904 [1] 263).
- 36) Aethylester d. 1-Methyltetrahydropyrrol-2-Carbonsäure. Sd. 75 bis 76°₁₂ (HCl, AuCl₃) (A. 326, 126 C. 1903 [1] 844).
- 37) Gem. Imid d. Propionsäure u. Isovaleriansäure. Sm. 68° (C. r. 137, 326 C. 1903 [2] 712).
- 38) Gem. Imid d. Buttersäure u. Isobuttersäure. Sm. 103° (C. r. 137, 326 C. 1903 [2] 712).
- $C_8H_{15}O_3N$ 12) Aethylester d. α -Acetylamidoisobuttersäure. Sm. 87,5° (B. 37, 1923 C. 1904 [2] 196).
- 13) Aethylester d. δ -Oximido- β -Methylbutan- δ -Carbonsäure. Sm. 60°; Sd. 142°₁₂ (Bl. [3] 31, 1073 C. 1904 [2] 1457).
- 14) Aethylester d. 2-Methyltetrahydrooxazol-1-Methylcarbonsäure. Sm. 31—32° (B. 36, 1283 C. 1903 [1] 1216).
- $C_8H_{15}O_3N_2$ 8) ϵ -Semicarbazonhexan- α -Carbonsäure. Sm. 144—146° (A. 329, 377 C. 1904 [1] 517).
- 9) δ -Semicarbazon- β -Methylpentan- β -Carbonsäure. Sm. 185—186° u. Zers. (197°) (A. 329, 99 C. 1903 [2] 1071; Soc. 85, 1220 C. 1904 [2] 1109).
- 10) ϵ -Semicarbazon- β -Methylpentan- ϵ -Carbonsäure. Sm. 205,5° (Bl. [3] 31, 1152 C. 1904 [2] 1707).
- 11) Aethylester d. α -Semicarbazonbutan- α -Carbonsäure. Sm. 139—140° (Bl. [3] 31, 1150 C. 1904 [2] 1706).
- 12) Aethylester d. α -Semicarbazon- β -Methylpropan- β -Carbonsäure. Sd. 163—164°₄₆ (Bl. [3] 31, 163 C. 1904 [1] 869).
- 13) Aethylester d. β -Amidoacetylhydrazonbuttersäure. Sm. 290° u. Zers. (J. pr. [2] 70, 105 C. 1904 [2] 1036).
- 14) Isobutylester d. α -Semicarbazonvaleriansäure. Sm. 137—138° (Bl. [3] 31, 1073 C. 1904 [2] 1457).
- 15) Butyrat d. β -Semicarbazon- α -Oxypropan. Sm. 82—83° (C. r. 138, 1275 C. 1904 [2] 93).
- $C_8H_{15}O_4N_3$ 3) Aethylester d. Amidoacetylamidoacetylamidoessigsäure. HCl (B. 36, 2984 C. 1903 [2] 1111).
- 4) Amid d. α -Carbäthoxylamidoacetylamidopropionsäure (Carbäthoxylglycylalaninamid). Sm. 136,5—137,5° (B. 36, 2111 C. 1903 [2] 345).
- $C_8H_{15}O_5N$ 3) Dimethylester d. Diäthylhydroxylamin- $\beta\beta'$ -Dicarbonsäure. Fl. HCl, Oxalat (B. 37, 255 C. 1904 [1] 642).
- $C_8H_{16}O_6N_6$ C 36,8 — H 5,7 — O 30,6 — N 26,8 — M. G. 261.
- 1) δ -Semicarbazon- $\epsilon\epsilon$ -Dinitro- β -Methylhexan. Sm. 148—149° u. Zers. (G. 34 [1] 412 C. 1904 [2] 304).
- $C_8H_{15}NS$ 2) α -Rhodanheptan. Sd. 234—236° (C. 1903 [1] 961).
- $C_8H_{15}N_2J$ 3) Jodmethylat d. Hexahydropyridin-N-Methylcarbonsäurenitril. Sm. 192—193° (B. 36, 4193 C. 1904 [1] 263).
- $C_8H_{16}ON_2$ 15) 1-Nitroso-2-Methyl-5-Isopropyltetrahydropyrrol. Sd. 114°₁₀ (C. 1903 [2] 1324).
- $C_8H_{16}O_2N_2$ *2) $\beta\gamma$ -Dioximidooktan. Sm. 173° (Bl. [3] 31, 1167 C. 1904 [2] 1700).
- *23) $\delta\epsilon$ -Dioximidooktan. Sm. 186—187° (Bl. [3] 31, 1175 C. 1904 [2] 1701).
- *24) s-Dibutrylhydrazin. Sm. 168°; Sd. 214°₂₄ (J. pr. [2] 69, 489 C. 1904 [2] 599).
- 25) $\alpha\delta$ -Di[Acetylamido]butan. Sm. 137° (B. 36, 337 C. 1903 [1] 703).

- $C_8H_{16}O_2N_2$ 26) $\alpha\alpha$ -Di[Acetyl-amido]- β -Methylpropan. Sm. 216° u. Zers. (*M.* 25, 967 *C.* 1904 [2] 1598).
 27) $\delta\epsilon$ -Dioximido- β -Methylheptan. Sm. 166—167° (*Bl.* [3] 31, 1167 *C.* 1904 [2] 1700).
 $C_8H_{16}O_2N_4$ 28) s -Diisobutylrylhydrazin. Sm. 239° (*J. pr.* [2] 69, 499 *C.* 1904 [2] 600).
 5) ϵ -Oximido- δ -Semicarbazon- β -Methylhexan. Sm. 203° u. Zers. (*G.* 34 [1] 411 *C.* 1904 [2] 304).
 $C_8H_{18}O_2Cl_2$ 6) Di[4-Morpholyl]tetrazon. Sm. 152° (*B.* 35, 4477 *C.* 1903 [1] 404).
 2) Dipropyläther d. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. Sd. 212—214° (*G.* 33 [2] 419 *C.* 1904 [1] 922).
 $C_8H_{18}O_4N_2$ 15) Aethylamid d. d-Weinsäure. Sm. 210—211° (*Soc.* 83, 1361 *C.* 1904 [1] 84).
 $C_8H_{16}O_4N_8$ 2) Hydrazid d. Tri[Amidoacetyl]amidoessigsäure. Sm. noch nicht bei 300°. 2HCl (*B.* 37, 1297 *C.* 1904 [1] 1336).
 $C_8H_{18}O_8N_2$ C 40,7 — H 6,8 — O 40,7 — N 11,8 — M. G. 236.
 1) Methylglykoseureid. Sm. 126° u. Zers. (*R.* 22, 64 *C.* 1903 [1] 1080).
 2) Diamidodioxykorksäure. Sm. 243° (248—249° u. Zers.) (*B.* 37, 1597 *C.* 1904 [1] 1449; *H.* 42, 293 *C.* 1904 [2] 959).
 $C_8H_{16}NJ$ 9) 2-[β -Jodpropyl]hexahydropyridin. Fl. HJ (*B.* 37, 1888 *C.* 1904 [2] 238).
 $C_8H_{18}N_2S$ 8) α -Allyl- β -[d-sec. Butyl]thioharnstoff. Sm. 31,5—32° (*Ar.* 242, 61 *C.* 1904 [1] 998).
 $C_8H_{17}ON$ *5) β -Dimethylamido- δ -Keto- β -Methylpentan (*M.* 24, 774 *C.* 1904 [1] 158).
 *9) β -Oximidooktan. Sd. 116,5°₁₅ (*C. r.* 136, 755 *C.* 1903 [1] 1019; *Bl.* [3] 29, 675 *C.* 1903 [2] 487).
 *39) 3-Oxy-2,2,5,5-Tetramethyltetrahydropyrrol (*B.* 36, 3367 *C.* 1903 [2] 1186).
 40) α -Oximidooktan. Sm. 58—59° (*C. r.* 138, 699 *C.* 1904 [1] 1066).
 41) δ -Oximidomethylheptan. Sd. 126°₁₇ (*Bl.* [3] 31, 306 *C.* 1904 [1] 1133).
 42) 3,4,4,6-Tetramethyltetrahydro-1,3-Oxazin. Sd. 166—168°. (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (*M.* 25, 835 *C.* 1904 [2] 1240).
 $C_8H_{17}ON_3$ 8) γ -Semicarbazon- $\beta\beta$ -Dimethylpentan. Sm. 150—151° (*Bl.* [3] 31, 114 *C.* 1904 [1] 643).
 $C_8H_{17}OCl$ 2) α -Chlor- β -Oxy- $\beta\epsilon$ -Dimethylhexan. Sd. 96°₂₃ (*C. r.* 138, 767 *C.* 1904 [1] 1196).
 $C_8H_{17}OBr$ 2) 2-Brommenthon. Fl. (*B.* 37, 2177 *C.* 1904 [2] 223).
 3) Verbindung (aus d. Glykol $C_8H_{18}O_2$). Sd. 58—60°₁₄ (*M.* 24, 610 *C.* 1903 [2] 1235).
 $C_8H_{17}O_2N$ *9) Nitrit d. α -Oxyoktan. Sd. 174—175° (*C. r.* 136, 1564 *C.* 1903 [2] 339).
 *10) Nitrit d. β -Oxyoktan. Sd. 65°₁₅ (*C. r.* 136, 1564 *C.* 1903 [2] 339).
 *19) Betaïn d. Triäthylamidoessigsäure. + AuCl₃ (*B.* 36, 4191 *C.* 1904 [1] 263).
 *22) Aethylester d. r - α -Amido- γ -Methylvaleriansäure. Sd. 94°₁₆ (*Bl.* [3] 31, 1180 *C.* 1904 [2] 1710).
 *24) Aethylester d. Isoamylamidoameisensäure. Sd. 122—123°₂₂ (*B.* 36, 2476 *C.* 1903 [2] 559).
 32) Betaïn d. δ -Trimethylamidovaleriansäure + H₂O. Sm. 126—127° (228° wasserfrei) (*B.* 37, 1856 *C.* 1904 [1] 1487).
 33) Betaïn d. α -Methyldiäthylamidopropionsäure. Sm. 117—119° (*B.* 36, 4191 *C.* 1904 [1] 263).
 34) Methylester d. δ -Dimethylamidovaleriansäure. Sd. 186—189°. (HCl, AuCl₃) (*B.* 37, 1857 *C.* 1904 [1] 1487).
 35) Nitrit d. γ -Oxy- γ -Aethylhexan. Sd. 155° (*C. r.* 136, 1564 *C.* 1903 [2] 339).
 $C_8H_{17}O_8N$ 4) Nitrat d. α -Oxyoktan. Sd. 110—112°₃₀ (*C. r.* 136, 1563 *C.* 1903 [2] 338).
 $C_8H_{17}NBr_2$ 5) $\delta\epsilon$ -Dibrom- β -Amido- $\beta\epsilon$ -Dimethylhexan. HBr (*B.* 36, 3367 *C.* 1903 [2] 1186).
 $C_8H_{17}NS_2$ 4) norm. Heptylamidodithioameisensäure. Sm. 65° (*C.* 1903 [1] 962).
 $C_8H_{17}N_2Cl$ 2) Nitril d. Triäthylchlorammoniumessigsäure. + HgCl₂, + AuCl₃ (*B.* 36, 4190 *C.* 1904 [1] 263).
 $C_8H_{17}N_2J$ *2) Nitril d. α -Methyldiäthyljodammoniumpropionsäure. Sm. 195—196° u. Zers. (192°) (*B.* 36, 4191 *C.* 1904 [1] 263; *B.* 37, 4089 *C.* 1904 [2] 1724).

- $C_8H_{17}N_2J$ *3) Nitril d. Triäthyljodammoniumessigsäure. Sm. 184° (B. 36, 4190 C. 1904 [1] 263).
- $C_8H_{18}ON_2$ 8) α -Propyl- β -[d-sec. Butyl]harnstoff. Sm. 80° (Ar. 242, 70 C. 1904 [1] 999).
- 9) α -Isopropyl- β -[d-sec. Butyl]harnstoff. Sm. 134° (Ar. 242, 70 C. 1904 [1] 999).
- 10) δ -Oximido- β -Dimethylamido- β -Methylpentan. Sm. 46—47; Sd. 136 bis 138°₁₇. Oxalat (M. 24, 780 C. 1904 [1] 158).
- 11) 3, 5-Dimethyltetrahydropyrazol + Aceton. Sm. 68—69° (B. 36, 223 C. 1903 [1] 522).
- 12) Nitril d. Triäthylammoniumhydroxydessigsäure. HCl, Pikrat (B. 36, 4190 C. 1904 [1] 263).
- $C_8H_{18}O_2N_8$ 2) Semicarbazidsemicarbazon d. Mesityloxyd. Sm. 220° (B. 36, 4378 C. 1904 [1] 454).
- $C_8H_{18}O_4S$ *3) Schwefelsäurediisobutylester. Sd. 133—134°₁₈ (Am. 30, 222 C. 1903 [2] 937).
- $C_8H_{18}NCl$ 12) δ - oder - ϵ -Chlor- β -Amido- $\beta\epsilon$ -Dimethylhexan. HCl (B. 36, 3366 C. 1903 [2] 1186).
- $C_8H_{18}N_3S$ 3) α -Propyl- β -[d-sec. Butyl]thioharnstoff. Sm. 53° (Ar. 242, 60 C. 1904 [1] 998).
- 4) α -Isopropyl- β -[d-sec. Butyl]thioharnstoff. Sm. 112—112,5° (Ar. 242, 60 C. 1904 [1] 998).
- $C_8H_{19}ON$ 7) α -Dimethylamido- β -Oxy- β -Methylpentan. Sd. 78°₃₅ (C. r. 138, 767 C. 1904 [1] 1196).
- 8) β -Dimethylamido- δ -Oxy- β -Methylpentan. Sd. 186—190°. (2HCl, PtCl₄) (M. 25, 139 C. 1904 [1] 866).
- 9) β -Äthylamido- δ -Oxy- β -Methylpentan. Sd. 189—191°. (2HCl, PtCl₄) (M. 25, 841 C. 1904 [2] 1240).
- $C_8H_{19}ClS$ *1) Methyläthylamylsulfinchlorid. + HgCl₂ (J. pr. [2] 66, 459 C. 1903 [1] 561).
- *3) Methylisopropylisobutylsulfinchlorid. + 6HgCl₂ (J. pr. [2] 66, 462 C. 1903 [1] 561).
- $C_8H_{20}NCl$ *2) Tetraäthylammoniumchlorid (J. pr. [2] 66, 472 C. 1903 [1] 561; C. 1904 [1] 923).
- $C_8H_{20}NJ$ *2) Tetraäthylammoniumjodid. + 2AgJ (B. 36, 142 C. 1903 [1] 500).
- $C_8H_{20}NJ_3$ *2) Tetraäthylammoniumtrijodid. Sm. 143° (C. 1904 [1] 1401).
- $C_8H_{20}NJ_7$ *1) Tetraäthylammoniumheptajodid. Sm. 108° (J. pr. [2] 67, 348 C. 1903 [1] 1297).
- $C_8H_{20}N_2Cl_2$ 1) Di[Chlormethylat] d. 1,4-Dimethylhexahydro-1,4-Diazin. + 4HgCl₂, 2 + PtCl₄, + 2AuCl₃ (J. pr. [2] 66, 520 C. 1903 [1] 561; B. 36, 144 C. 1903 [1] 526; B. 37, 3515 C. 1904 [2] 1323).
- $C_8H_{20}N_2J_2$ *1) Di[Jodmethylat] d. 1,4-Dimethylhexahydro-1,4-Diazin. Zers. bei 300° (J. pr. [2] 66, 520 C. 1903 [1] 561; J. pr. [2] 67, 353 C. 1903 [1] 1298; B. 37, 3515 C. 1904 [2] 1323).
- $C_8H_{20}N_2J_{10}$ 1) Oktojodid d. 1,4-Dimethylhexahydro-1,4-Diazindijodmethylat. Sm. 120° u. Zers. (J. pr. [2] 67, 353 C. 1903 [1] 1298).
- $C_8O_8Cl_2Br_2$ 1) Anhydrid d. 3,5-Dichlor-4,6-Dibrombenzol-1,2-Dicarbonsäure. Sm. 248—250° (Soc. 85, 286 C. 1904 [1] 1009).
- 2) Anhydrid d. Dichlordibrombenzol-1,2-Dicarbonsäure. Sm. 261° (D.R.P. 50117). — *II, 1060.
- 8 IV —
- $C_8HO_3Cl_2Br$ 1) Anhydrid d. 3,5-Dichlor-4-Brombenzol-1,2-Dicarbonsäure. Sm. 170—171° (Soc. 85, 276 C. 1904 [1] 1009).
- $C_8H_2O_4Cl_2Br_2$ 1) 3,5-Dichlor-4,6-Dibrombenzol-1,2-Dicarbonsäure. Sm. 240 bis 241° u. Zers. (Soc. 85, 285 C. 1904 [1] 1009).
- $C_8H_3O_2NCl_2$ 7) Imid d. 3,5-Dichlorbenzol-1,2-Dicarbonsäure. Sm. 208° (Soc. 81, 1537 C. 1903 [1] 140).
- $C_8H_3O_4NCl_2$ 1) Chlorid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 76—77° (C. 1903 [2] 431).
- $C_8H_3O_4Cl_2Br$ 1) 3,5-Dichlor-4-Brombenzol-1,2-Dicarbonsäure. Sm. 169—170°. Ag₂ (Soc. 85, 276 C. 1904 [1] 806, 1009).

- $C_8H_5O_8NCl_2$ 2) 3,5-Dichlor-4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 165° u. Zers. (*Soc.* 85, 277 *C.* 1904 [1] 1009).
- $C_8H_5O_8N_2Cl_3$ 1) Trichlordinitrophenyllessigsäure. Sm. 190—191°. Ag (*Am.* 31, 384 *C.* 1904 [1] 1409).
- $C_8H_4ON_2Br_2$ 1) 6,8-Dibrom-4-Keto-3,4-Dihydro-1,3-Benzdiazin. Zers. oberh. 300° (*C.* 1903 [2] 1194).
- $C_8H_4O_2NCl$ *6) Chlorimid d. Benzol-1,2-Dicarbonsäure (D.R.P. 139553 *C.* 1903 [1] 744).
- $C_8H_4O_2NCl$ 4) Chlorformiat d. 4-Oxyphenylisocyanat. Sm. 36—37° (*J. pr.* [2] 67, 339 *C.* 1903 [1] 1339).
- $C_8H_4O_2N_2S$ 1) Rhodanid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 94° (*C.* 1904 [1] 1559).
- $C_8H_4O_2N_3Cl_3$ 2) Methylnitramid d. 2,4,6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 118,5° (*R.* 21, 395 *C.* 1903 [1] 152).
- $C_8H_5ONCl_2$ 3) $\alpha\alpha$ -Dichlor- α -Benzoylimidomethan (Benzoylisocyanchlorid). Sd. 146—148°₃₁ (*Am.* 32, 371 *C.* 1904 [2] 1507).
- C_8H_5ONS *2) Benzthiazol-1-Carbonsäure. Sm. 108° (*B.* 37, 3731 *C.* 1904 [2] 1451).
- $C_8H_5O_2N_2Br_3$ 1) 2,4,6-Tribromphenylnitrosamid d. Essigsäure. Sm. 93° (*A.* 325, 243 *C.* 1903 [1] 631).
- $C_8H_5O_2N_2Cl$ *1) Nitril d. 5-Chlor-6-Nitro-2-Oxybenzoldimethyläther-1-Carbonsäure (*R.* 21, 426 *C.* 1903 [1] 511).
- $C_8H_5O_2N_2Cl_3$ 4) Methylamid d. 2,4,6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 217,25° (*R.* 21, 390 *C.* 1903 [1] 152).
- $C_8H_5O_2NCl_2$ 2) 3,5-Dichlor-6-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 187 bis 189° (*Soc.* 85, 281 *C.* 1904 [1] 1009).
- $C_8H_5O_4N_2Br$ *1) β -Brom- β -Nitro- α -[4-Nitrophenyl]äthen. Sm. 135° (*A.* 325, 14 *C.* 1903 [1] 287).
- C_8H_6ONCl 3) Chlormethylantranil. Sm. 97,5—98°. + $1\frac{1}{2}HgCl_2$ (*B.* 36, 1622 *C.* 1903 [2] 36).
- 4) 4-Chlor-1-Methylbenzoxazol. Sm. 53—54°; Sd. 218—220°. HCl, (2HCl, $PtCl_4$) (*Am.* 32, 42 *C.* 1904 [2] 698).
- $C_8H_6ONJ_3$ 2) 2,4,5-Trijodphenylamid d. Essigsäure. Sm. 227° (*C. r.* 137, 1066 *C.* 1904 [1] 266).
- $C_8H_6ON_2S$ 3) Amid d. Benzthiazol-1-Carbonsäure. Sm. 228—230° (*B.* 37, 3732 *C.* 1904 [2] 1451).
- $C_8H_6O_2NBr$ *1) β -Brom- β -Nitro- α -Phenyläthen. Sm. 67° (*A.* 325, 8 *C.* 1903 [1] 286).
- $C_8H_6O_2NBr_3$ *1) p -Tribromphenylamidoessigsäure. Sm. 200° u. Zers. (*B.* 37, 834 *C.* 1904 [1] 1201).
- 4) 2,3,6-Tribrom-4-Acetylamido-1-Oxybenzol. Sm. 224° u. Zers. (*Soc.* 81, 1478 *C.* 1903 [1] 23, 144).
- $C_8H_6O_2N_3Br_3$ 1) α -[2,4,6-Tribromphenyl]hydrazon- α -Nitroäthan. Sm. 116—117° (*B.* 36, 3835 *C.* 1904 [1] 19).
- $C_8H_6O_3NBr$ 10) α -Brom- α -Nitromethylphenylketon. Sm. 61,5° (*A.* 325, 13 *C.* 1903 [1] 287).
- 6) Äthyläther d. 4,5,6-Tribrom-2-Nitro-1-Oxybenzol. Sm. 74° (*Am.* 30, 71 *C.* 1903 [2] 355).
- $C_8H_6O_3N_2Cl_2$ *7) 2,6-Dichlor-4-Nitrophenylamid d. Essigsäure. Sm. 214—215° (*C.* 1903 [2] 550).
- $C_8H_6O_4NCl$ *14) Methylester d. 5-Chlor-2-Nitrobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
- *15) Methylester d. 4-Chlor-3-Nitrobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
- *16) Methylester d. 6-Chlor-3-Nitrobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
- 18) Acetat d. 4-Chlor-2-Nitro-1-Oxybenzol (*Am.* 32, 37 *C.* 1904 [2] 698).
- $C_8H_6O_4NBr_8$ *2) Dimethyläther d. 4,5,6-Tribrom-3-Nitro-1,2-Dioxybenzol. Sm. 116—117° (*C. r.* 135, 968 *C.* 1903 [1] 144).
- $C_8H_6O_4N_2Cl_2$ 5) 4,6-Dichlor-3,5-Dinitro-1,2-Dimethylbenzol. Sm. 175—176° (*Soc.* 85, 284 *C.* 1904 [1] 1009).
- $C_8H_6O_6N_4Br_2$ 1) 4,5-Dibrom-2,6-Dinitro-1-Aethylnitroamidobenzol. Sm. 106° (*R.* 21, 416 *C.* 1903 [1] 506).

- $C_8H_7O_7N_3Cl$ 1) Äethyläther d. 3-Chlor-2,4,6-Trinitro-1-Oxybenzol. Sm. 51° (*R.* 21, 325 *C.* 1903 [1] 80).
- $C_8H_7ONCl_2$ *3) 2,4-Dichlorphenylamid d. Essigsäure. Sm. 145—146° (*C.* 1903 [2] 550).
- *10) 4-Chlorphenylchloramid d. Essigsäure (*C.* 1903 [1] 22).
- 13) Methylantranildichlorid. Sm. 101—101,5° (*Ar.* 240, 437 *C.* 1902 [2] 939; *B.* 36, 1621 *C.* 1903 [2] 36).
- $C_8H_7ONJ_2$ *1) 3,5-Dijodphenylamid d. Essigsäure (*C. r.* 136, 237 *C.* 1903 [1] 574).
- $C_8H_7ONS_2$ 1) Gem. Anhydrid d. Benzolcarbonsäure u. Amidodithioameisen-säure. Sm. 108—109° (*B.* 36, 3527 *C.* 1903 [2] 1326).
- $C_8H_7ON_2S$ 3) 3-Merkapto-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 195°. $K + H_2O$ (*B.* 36, 3151 *C.* 1903 [2] 1074; *B.* 37, 623 *C.* 1904 [1] 957).
- $C_8H_7O_2NBr_2$ *9) 2,6-Dibrom-4-Acetylamido-1-Oxybenzol. Sm. 185—186° (178 bis 179°) (*Soc.* 81, 1477 *C.* 1903 [1] 23, 144).
- $C_8H_7O_2NS$ 1) 4-Amid d. Benzol-1-Carbonsäure-4-Thiocarbonsäure. Sm. 247° (*B.* 37, 3222 *C.* 1904 [2] 1121).
- 2) S-Phenylmonamid d. Thiooxalsäure. Sm. 101—102°. Na, Anilinsalz (*B.* 37, 3713 *C.* 1904 [2] 1449).
- $C_8H_7O_2N_2Br$ 4) 4-Bromphenylnitrosamid d. Essigsäure. Zers. bei 88° (*A.* 325, 242 *C.* 1903 [1] 631).
- $C_8H_7O_2N_2Br_3$ 2) 4,5,6-Tribrom-2-Nitro-1-Aethylamidobenzol. Sm. 130° (*R.* 21, 416 *C.* 1903 [1] 506).
- $C_8H_7O_2N_6Cl_2$ 2) 3,5-Dichlor-2-Oxy-1-Semicarbazonmethylbenzol. Sm. 227° u. Zers. (*B.* 37, 4028 *C.* 1904 [2] 1718).
- 3) 3,5-Dichlor-4-Oxy-1-Semicarbazonmethylbenzol. Sm. 236—237° u. Zers. (*B.* 37, 4033 *C.* 1904 [2] 1719).
- $C_8H_7O_2N_4Cl_3$ 1) 2,6-Diketo-8-Trichlormethyl-3,7-Dimethylpurin. Sm. 211—212° (*D.R.P.* 146714 *C.* 1903 [2] 1485).
- $C_8H_7O_3NBr_2$ *4) Äethyläther d. 2,6-Dibrom-4-Nitro-1-Oxybenzol. Sm. 58—59° (*Am.* 30, 63 *C.* 1903 [2] 354).
- 7) Äethyläther d. 3,6-Dibrom-2-Nitro-1-Oxybenzol. Sm. 45° (*Am.* 28, 470 *C.* 1903 [1] 323).
- 8) Äethyläther d. 2,5-Dibrom-4-Nitro-1-Oxybenzol. Sm. 126° (*Am.* 28, 465 *C.* 1903 [1] 323).
- $C_8H_7O_3NS$ *3) Methylimid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 129° (*Am.* 30, 278 *C.* 1903 [2] 1120).
- $C_8H_7O_3N_3Cl$ *9) Methylamid d. 4-Chlor-3-Nitrobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
- 15) Methyläther d. α -Chlorimido- α -Oxy- α -[3-Nitrophenyl]methan. Sm. 86,5—87° (*Am.* 30, 403 *C.* 1904 [1] 239).
- 16) Methyläther d. isom. α -Chlorimido- α -Oxy- α -[3-Nitrophenyl]-methan. Sm. 81—82° (*Am.* 30, 406 *C.* 1904 [1] 239).
- 17) Methylchloramid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 77° (*Am.* 30, 408 *C.* 1904 [1] 239).
- 18) 3-Nitrophenylamid d. Chloressigsäure. Sm. 101—102° (*C.* 1903 [2] 110).
- $C_8H_7O_8N_3S$ 2) 2-Imido-4-Keto-3-[3-Nitrophenyl]tetrahydrothiazol. Sm. 183—184° (*C.* 1903 [2] 110).
- $C_8H_7O_8N_4Cl$ 2) 4-Chlor-2-Nitro-1-Semicarbazonmethylbenzol. Sm. 269—270° (*B.* 36, 3301 *C.* 1903 [2] 1173; *D.R.P.* 149748 *C.* 1904 [1] 909).
- $C_8H_7O_8N_4Br$ 1) 4-Brom-2-Nitrobenzylidenamidoharnstoff. Sm. 276° (*B.* 37, 1868 *C.* 1904 [1] 1601).
- $C_8H_7O_4NCl_2$ 2) Dimethyläther d. p-Dichlor-3-Nitro-1,2-Dioxybenzol. Sm. 110—111° (*C. r.* 135, 969 *C.* 1903 [1] 145).
- 3) Dimethyläther d. p-Dichlor-4-Nitro-1,2-Dioxybenzol. Sm. 46—47° (*C. r.* 135, 969 *C.* 1903 [1] 145).
- $C_8H_7O_4NBr_2$ 4) Dimethyläther d. Dibromnitrodioxybenzol (aus 3,4,5-Tribrom-1,2-Dinitrobenzol). Sm. 81° (*Am.* 30, 70 *C.* 1903 [2] 355).
- $C_8H_7O_4N_2Br$ 5) 6-Brom-2-Nitro-4-Acetylamido-1-Oxybenzol. Sm. 230° (*Soc.* 81, 1478 *C.* 1903 [1] 23, 144).
- $C_8H_7O_4ClS$ 3) 3-Chlorid d. Benzol-1-Carbonsäuremethylester-3-Sulfonsäure. Sm. 63—65° (*M.* 23, 1120 *C.* 1903 [1] 396).

- $C_8H_7O_5N_2Cl$ 2) Aethyläther d. 5-Chlor-2,4-Dinitro-1-Oxybenzol. Sm. 112° (*R.* 23, 123 *C.* 1904 [2] 206).
- $C_8H_7O_5N_3S$ *1) 3- oder 6-Nitro-2,4-Dimethyl-1-Diazobenzol-5-Sulfonsäure (*A.* 330, 60 *C.* 1904 [1] 1142).
- $C_8H_7O_7NS$ *1) 1-Methylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Na (*Am.* 30, 388 *C.* 1904 [1] 275).
- 2) 3-Amidobenzol-1,2-Dicarbonsäure-2-Sulfonsäure (*D.R.P.* 109487 *C.* 1900 [2] 408). — *II, 1062.
- 3) 1-Methylester d. 2-Nitrobenzol-1-Carbonsäure-4-Sulfonsäure + 2H₂O. Sm. 95–97° (*M.* 23, 1142 *C.* 1903 [1] 397).
- 4) 4-Methylester d. 2-Nitrobenzol-1-Carbonsäure-4-Sulfonsäure. Sm. 140–142°. Ag (*M.* 23, 1143 *C.* 1903 [1] 397).
- $C_8H_7O_5N_6Br$ 1) 4-Brom-2,6-Dinitro-1,3-Di[Methylnitramido]benzol. Sm. 173° u. Zers. (*R.* 21, 415 *C.* 1903 [1] 506).
- C_8H_8ONCl *13) Phenylchloramid d. Essigsäure (*R.* 21, 367 *C.* 1903 [1] 141; *C.* 1903 [1] 22; *Am.* 29, 299 *C.* 1903 [1] 1165; *R.* 22, 290 *C.* 1903 [2] 242).
- *16) 4-Chlorphenylamid d. Essigsäure (*R.* 21, 367 *C.* 1903 [1] 141; *R.* 22, 290 *C.* 1903 [2] 242).
- *22) Methylanid d. 2-Chlorbenzol-1-Carbonsäure. Sm. 92–94° (*Soc.* 83, 768 *C.* 1903 [2] 200, 437; *C.* 1903 [2] 1174).
- *25) Methylechloramid d. Benzolcarbonsäure. Fl. (*Am.* 29, 310 *C.* 1903 [1] 1166).
- 27) Methyl-3-Chlor-4-Amidophenylketon. Sm. 92° (*Soc.* 85, 341 *C.* 1904 [1] 1404).
- 28) 4-Methylphenylchloramid d. Ameisensäure. Sm. 49–50°. Zers. bei 140° (*Am.* 29, 306 *C.* 1903 [1] 1166).
- C_8H_8ONBr *7) Phenylbromamid d. Essigsäure. Sm. 94–95° (*Am.* 29, 303 *C.* 1903 [1] 1166).
- *10) 4-Bromphenylamid d. Essigsäure. Sm. 167–168° (*C.* 1903 [2] 550).
- 13) 4-Methylphenylbromamid d. Ameisensäure. Sm. 80° (*Am.* 29, 306 *C.* 1903 [1] 1166).
- C_8H_8ONJ *2) 2-Jodphenylamid d. Essigsäure. Sm. 109–110° (*M.* 25, 957 *C.* 1904 [2] 1638).
- *3) 3-Jodphenylamid d. Essigsäure. Sm. 119,5° (*M.* 25, 958 *C.* 1904 [2] 1638).
- *4) 4-Jodphenylamid d. Essigsäure. Sm. 181° (*M.* 25, 948 *C.* 1904 [2] 1638).
- $C_8H_8ON_2S$ 3) O-Amid d. Phenylthiooxaminsäure. Sm. 169–170° (*B.* 37, 3719 *C.* 1904 [2] 1450).
- 4) S-Amid d. Phenylthiooxaminsäure. Sm. 176° (*B.* 37, 3716 *C.* 1904 [2] 1449).
- C_8H_8OClBr 1) β -Bromäthyläther d. 2-Chlor-1-Oxybenzol. Sd. 140–142°₁₃ (*B.* 36, 2874 *C.* 1903 [2] 834).
- $C_8H_8O_2NCl$ 15) 4-Chlor-2-Acetylamido-1-Oxybenzol. Sm. 176° (*Am.* 32, 40 *C.* 1904 [2] 698).
- 16) 2-Chlor-4-Acetylamido-1-Oxybenzol. Sm. 144° (*D.R.P.* 147530 *C.* 1904 [1] 233).
- 17) 2-Chlorphenylamidoessigsäure. Sm. 166–167° (*B.* 37, 4082 *C.* 1904 [2] 1723).
- 18) Acetat d. 4-Chlor-2-Amido-1-Oxybenzol. HCl, (2HCl, PtCl₄) (*Am.* 32, 38 *C.* 1904 [2] 698).
- $C_8H_8O_2NBr$ 22) 4-Brom-2-Nitromethyl-1-Methylbenzol. Sm. 65° (*C.* 1904 [2] 200).
- $C_8H_8O_2N_2Cl_2$ 1) 4,5-Dichlor-2-Nitro-1-Aethylamidobenzol. Sm. 120° (*R.* 21, 421 *C.* 1903 [1] 504).
- $C_8H_8O_2N_2Br_2$ 2) 4,5-Dibrom-2-Nitro-1-Aethylamidobenzol. Sm. 128° (*R.* 21, 416 *C.* 1903 [1] 506).
- $C_8H_8O_2N_2S$ 6) Nitril d. Phenylsulfonamidoessigsäure. Sm. 76–77°. Na (*B.* 37, 4100 *C.* 1904 [2] 1727).
- 7) Methylecyanamid d. Benzolsulfonsäure. Sm. 45–46°; Sd. 205°₃₀ (*B.* 37, 2811 *C.* 1904 [2] 593).
- $C_8H_8O_2N_2S_2$ 1) 4-Nitrobenzylester d. Amidodithioameisensäure. Sm. 135° (*C. r.* 135, 975 *C.* 1903 [1] 139).

- $C_8H_5O_2N_3Cl$ 4) 5-Chlor-2-Oxy-1-Semicarbazonomethylbenzol. Sm. 286—287° (B. 37, 4025 C. 1904 [2] 1717).
- 5) 3-Chlor-4-Oxy-1-Semicarbazonomethylbenzol. Sm. 210° u. Zers. (B. 37, 4033 C. 1904 [2] 1718).
- $C_8H_5O_2N_4Cl_2$ *1) 8-Chlor-2,6-Diketo-3-Chlormethyl-1,7-Dimethylpurin (D.R.P. 151190 C. 1904 [1] 1586).
- 2) 8-Chlor-2,6-Diketo-7-Chlormethyl-1,3-Dimethylpurin. Sm. 145° (D.R.P. 145880 C. 1903 [2] 1036; D.R.P. 153122 C. 1904 [2] 626).
- $C_8H_5O_8NCl$ 8) Methyläther d. 5-Chlor-3-Nitro-4-Oxy-1-Methylbenzol. Sm. 40—41° (A. 328, 312 C. 1903 [2] 1246).
- 9) Äthyläther d. 5-Chlor-2-Nitro-1-Oxybenzol. Sm. 63° (R. 21, 322 C. 1903 [1] 79).
- $C_8H_5O_3N_2Br_2$ 2) Monolaktam d. $\alpha\delta$ -Dibrom- $\beta\gamma$ -Diamidobutan- $\alpha\delta$ -Dicarbonsäure (B. 35, 4126 C. 1903 [1] 136).
- $C_8H_5O_3N_2S$ *1) 2,4-Dimethyl-1-Diazobenzol-5-Sulfonsäure (A. 330, 46 C. 1904 [1] 1141).
- $C_8H_5O_4N_2S$ 2) 3-Nitrophenylamid d. Äthensulfonsäure. Sm. 119° (B. 36, 3630 C. 1903 [2] 1327).
- $C_8H_5O_4J_2S_2$ *1) 1,3-Di[Jodmethylsulfon]benzol. Sm. 248° (J. pr. [2] 68, 324 C. 1903 [2] 1171).
- $C_8H_5O_6N_2S$ 2) 4-Nitro-1-Acetylamidobenzol-3-Sulfonsäure (D.R.P. 150982 C. 1904 [1] 1235).
- $C_8H_5O_6N_5Br$ 1) 4-Brom-2,6-Dinitro-3-Methylamido-1-Methylnitramidobenzol. Sm. 179° (R. 21, 415 C. 1903 [1] 505).
- $C_8H_5O_6N_2S$ 1) 2,4- oder 4,6-Dinitro-5-Oxy-1,3-Dimethylbenzol-6 oder 2-Sulfonsäure. K (B. 37, 3478 C. 1904 [2] 1213).
- C_8H_5NCIS 3) 4-Chlorphenylamid d. Thioessigsäure. Sm. 143° (B. 37, 876 C. 1904 [1] 1004).
- $C_8H_5ONBr_2$ *4) Äthyläther d. 2,6-Dibrom-4-Amido-1-Oxybenzol. Sm. 107° (67°). HCl (Am. 30, 66 C. 1903 [2] 355).
- C_8H_5ONSe 1) Phenylamid d. Selenessigsäure. Cu (Ar. 241, 203 C. 1903 [2] 103).
- $C_8H_5ON_2Cl$ 7) Amid d. 4-Chlorphenylamidoessigsäure. Sm. 125—126° (Bl. [3] 29, 967 C. 1903 [2] 1118).
- 8) 2-Chlor-4-Amidophenylamid d. Essigsäure. Sm. 133° (D.R.P. 146654 C. 1903 [2] 1485).
- $C_8H_5O_2N_3S$ 2) β -Amid d. α -Phenylhydrazin- α -Carbonsäure- β -Thiocarbonsäure. K + 2H₂O (B. 37, 622 C. 1904 [1] 957).
- $C_8H_5O_2N_3S_2$ 1) Diacetylchrysean. Sm. 216° u. Zers. (B. 36, 3547 C. 1903 [2] 1379).
- $C_8H_5O_3ClS$ *12) Chlorid d. 4-Oxy-1-Methylbenzolzomethyläther-3-Sulfonsäure. Sm. 83,5—84° (Am. 31, 36 C. 1904 [1] 441).
- $C_8H_5O_4NS$ 15) α -Benzoylamidomethan- α -Sulfonsäure. Na (B. 37, 4095 C. 1904 [2] 1726).
- 16) 2-Methylamid d. Benzol-1-Carbonsäure-2-Sulfonsäure. K₂, Ba (Am. 30, 281 C. 1903 [2] 1120).
- $C_8H_5O_5NS$ *13) 3-Amid d. 4-Oxybenzolzomethyläther-1-Carbonsäure-3-Sulfonsäure. Sm. 276—277°. Na + 3H₂O, K + 1½H₂O, Ca + 5H₂O, Ba + 4½H₂O, Mg + 6[10½]H₂O (Am. 31, 37 C. 1904 [1] 441).
- 16) 2-Sulfomethylamidobenzol-1-Carbonsäure (D.R.P. 155628 C. 1904 [2] 1444).
- 17) 4-Acetylamido-1-Oxybenzol-2-Sulfonsäure (D.R.P. 147530 C. 1904 [1] 233).
- 18) 2-Methylesterd. Phenylsulfaminsäure-2-Carbonsäure. Na (D.R.P. 147552 C. 1904 [1] 129).
- 19) 3-Methylesterd. Phenylsulfaminsäure-3-Carbonsäure. Na (D.R.P. 147552 C. 1904 [1] 129).
- 20) 4-Methylesterd. Phenylsulfaminsäure-4-Carbonsäure. Na (D.R.P. 147552 C. 1904 [1] 129).
- $C_8H_{10}ON_2S$ *3) Methyläther d. 2-Oxyphenylthioharnstoff. Sm. 152° (B. 36, 3322 C. 1903 [2] 1169).
- $C_8H_{10}O_5N_4S$ 1) 2,6-Diketo-1,3,7-Trimethylpurin-8-Sulfonsäure (Kaffeinsulfonsäure) (D.R.P. 74045). — *III, 707.
- $C_8H_{10}NCl_2P$ 2) Äthylphenylamidodichlorphosphin. Sd. 143°₁₂ (A. 326, 222 C. 1903 [1] 866).

- $C_8H_{11}ONCl_2$ 1) Chlormethyläther d. β -Chlor- α -Oxyäthan + Pyridin. 2 + $PtCl_4$, + $AuCl_3$ (A. 330, 127 C. 1904 [1] 1064).
- $C_8H_{11}O_2NS$ *14) Dimethylamid d. Benzolsulfonsäure. Sm. 47—48° (B. 36, 2706 C. 1903 [2] 829).
- *15) Aethylamid d. Benzolsulfonsäure. Sm. 57—58° (B. 36, 2706 C. 1903 [2] 829; B. 37, 3803 C. 1904 [2] 1564).
- 21) Methylamid d. 1-Methylbenzol-2-Sulfonsäure. Sm. 74—75° (Am. 30, 281 C. 1903 [2] 1120).
- $C_8H_{11}O_3NS$ *4) 1-Dimethylamidobenzol-4-Sulfonsäure. Zers. bei 265—266° (C. 1903 [1] 573).
- *9) 4-Amido-1,3-Dimethylbenzol-6-Sulfonsäure. Ba (C. 1903 [1] 573).
- *10) 2-Amido-1,4-Dimethylbenzol-5-Sulfonsäure (C. 1903 [1] 573).
- *13) 2,4-Dimethylphenylsulfaminsäure. Sm. 200° (D.R.P. 151134 C. 1904 [1] 1381).
- *19) Amid d. 4-Oxy-1-Methylbenzolzomethyläther-3-Sulfonsäure. Sm. 180—181° (Am. 31, 36 C. 1904 [1] 441).
- *22) 4-Amido-1,3-Dimethylbenzol-5-Sulfonsäure (C. 1903 [1] 573).
- 25) 1,2,6-Trimethylthiopyrintrioxyd + $2H_2O$ (A. 331, 260 C. 1904 [1] 1223).
- 26) 1-Dimethylamidobenzol-3-Sulfonsäure. Zers. bei 265—266° (C. 1903 [1] 573).
- 27) Methylphenylamidomethan- α -Sulfonsäure. Na (D.R.P. 153193 C. 1904 [2] 575).
- 28) β -Oxyäthylamid d. Benzolsulfonsäure. Sd. 280°₁₅. Na (B. 36, 1279 C. 1903 [1] 1215).
- $C_8H_{11}O_4NS$ 5) 4-Amido-1-Oxybenzolzomethyläther-3-Sulfonsäure (D.R.P. 146655 C. 1903 [2] 1301).
- $C_8H_{11}NClI$ 1) Jodmethylat d. 4-Chlor-2,6-Dimethylpyridin + $2H_2O$. Sm. 233—234° (wasserfrei) (A. 331, 255 C. 1904 [1] 1223).
- $C_8H_{12}ONCl$ 4) Verbindung (aus Chlormethyläthyläther u. Pyridin). 2 + $PtCl_4$, + $AuCl_3$ (A. 334, 65 C. 1904 [2] 949).
- $C_8H_{12}ON_2S$ 2) Methyläther d. 2-Merkapto-4-Keto-6-Methyl-5-Aethyl-3,4-Dihydro-1,3-Diazin. Sm. 203° (Am. 29, 489 C. 1903 [1] 1309).
- 3) Diäthyläther d. 2-Merkapto-4-Oxy-1,3-Diazin. Sd. 137—138°₁₈ (Am. 31, 597 C. 1904 [2] 242).
- 4) Aethyläther d. 2-Merkapto-4-Keto-5,6-Dimethyl-3,4-Dihydro-1,3-Diazin. Sm. 156° (Am. 29, 488 C. 1903 [1] 1309).
- $C_8H_{12}O_2N_2S$ 8) 2-Thiocarbonyl-4,6-Diketo-5,5-Diäthylhexahydro-1,3-Diazin. Sm. 180° (A. 335, 350 C. 1904 [2] 1381).
- $C_8H_{12}O_2N_4S$ 1) 1-Ureido-2-Thiocarbonyl-4-Keto-5-Methyl-3-Allyltetrahydroimidazol. Sm. 167° (C. 1904 [2] 1027).
- $C_8H_{12}O_4NBr$ 1) Verbindung (aus d. Verb. $C_8H_{13}O_4NBr_3$). Sm. 78° (C. 1903 [1] 816).
- $C_8H_{12}O_5N_3Cl$ 1) Chloracetylbis[Amidoacetyl]amidoessigsäure (Chloracetyldiglycylglycin). Sm. 224° (B. 37, 2501 C. 1904 [2] 426).
- $C_8H_{12}O_6N_2S_4$ *1) 4-Amido-1-Dimethylamidobenzol-2,5-Di[Thiosulfonsäure]. K_2 (Soc. 83, 1212 C. 1903 [2] 1329).
- $C_8H_{12}O_{10}N_2S_4$ 1) Benzol-1,3-Di[Sulfonamidomethansulfonsäure]. Na_2 (B. 37, 4102 C. 1904 [2] 1727).
- $C_8H_{13}O_3NBr_2$ 3) 1- α -(α , δ -Dibromvaleryl)amidopropionsäure. Sm. 113—116° (B. 37, 2844 C. 1904 [2] 644).
- $C_8H_{13}O_4NBr_2$ 1) Verbindung (aus β -Nitro- α , γ -Dioxy- β -Methylpropan). Sm. 115—116° (C. 1903 [1] 816).
- $C_8H_{13}O_4N_2Cl$ 1) Aethyl ester d. Chloracetylamidooacetylamidooessigsäure. Sm. 153 bis 154° (B. 36, 2113 C. 1903 [2] 345).
- $C_8H_{14}O_2N_2S$ 2) S-Methylamid d. β -Imidopropan- α -Thiocarbonsäure- α -Carbon-säureäthylester. Sm. 145—146° (A. 329, 347 C. 1904 [1] 435).
- $C_8H_{14}O_4N_4Se_2$ 1) Di[β -Methylureid] d. Dimethyldiselenid- α , α' -Dicarbonsäure (Diselenglykolylmethylharnstoff). Sm. 183—184° (Ar. 241, 191 C. 1903 [2] 103).
- $C_8H_{16}OJHg$ 1) γ -Methylheptan- γ -Oxyd- η -Quecksilberjodid. Sm. 44° (A. 329, 175 C. 1903 [2] 1413).
- $C_8H_{15}O_2NCl_2$ 2) β , β' -Dichlorisopropylester d. Diäthylamidoameisensäure. Sd. 259 bis 261° (Bl. [3] 31, 690 C. 1904 [2] 198).

- $C_8H_{10}ONBr$ 1) Amid d. δ -Bromheptan- δ -Carbonsäure. Sm. 55—56° (*C.* 1904 [2] 1666).
- $C_8H_{16}N_2BrS$ 1) 2-[d-sec. Butylamido]-5-Brommethyltetrahydrothiazol. Sm. 92 bis 93° (*Ar.* 242, 65 *C.* 1904 [1] 998).
- $C_8H_{16}N_2JS$ 1) 2-[d-sec. Butylamido]-5-Jodmethyltetrahydrothiazol. Sm. 114° (*Ar.* 242, 66 *C.* 1904 [1] 999).
- $C_8H_{17}ON_4Cl$ 1) Verbindung (aus Chlordimethyläther u. Hexamethylentetramin) (*A.* 334, 56 *C.* 1904 [2] 949).
- $C_8H_{18}O_2NCl$ 5) δ -Trimethylchloramidovaleriansäure. 2 + $PtCl_4$ (*B.* 37, 1856 *C.* 1904 [1] 1487).
- $C_8H_{18}O_2NBr$ 1) δ -Trimethylbromamidovaleriansäure. Sm. 184—187° (*B.* 37, 1855 *C.* 1904 [1] 1487).
- $C_8H_{18}NCl_2P$ *1) Diisobutylamidodichlorphosphin. Sm. 37—38°; Sd. 116—117°₁₀ (*A.* 326, 156 *C.* 1903 [1] 761).
- $C_8H_{18}NCl_4P$ 1) Diisobutylamidophosphortetrachlorid. + PCl_5 (*A.* 326, 160 *C.* 1903 [1] 761).
- $C_8H_{19}O_2NCl$ 1) Dipropylmonamid d. Äethylphosphorsäuremonochlorid. Fl. (*A.* 326, 192 *C.* 1903 [1] 820).
- $C_8H_{20}OClP$ *1) β -Oxytetraäthylphosphoniumchlorid. + $HgCl_2$, 2 + $PtCl_4$, + $AuCl_3$ (*Ar.* 241, 409 *C.* 1903 [2] 986).
- $C_8H_{20}O_8NP$ 1) Diäthylmonamid d. Phosphorsäurediäthylester. Sd. 218—220° (*A.* 326, 182 *C.* 1903 [1] 819).
- $C_8H_{22}ON_2Cl_2$ *1) Di[Chlormethylat] d. $\alpha\alpha'$ -Di[Dimethylamido]dimethyläther. + $PtCl_4$ + H_2O , + 2 $AuCl_3$ (*A.* 334, 13 *C.* 1904 [2] 947).
- $C_8H_{22}N_3SP$ 1) Di[Äthylamid]-Isobutylamid d. Thiophosphorsäure. Sm. 48,5° (*A.* 326, 208 *C.* 1903 [1] 821).

- $C_8H_8O_2NCl_2Br$ 1) 4,6-Dichlor-5-Brom-3-Nitro-1,2-Dimethylbenzol. Sm. 175,5 bis 176,5° (*Soe.* 85, 275 *C.* 1904 [1] 1009).
- $C_8H_8O_8NCIS$ *1) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäuremethylester-2-Sulfonsäure. Sm. 135° (*Am.* 30, 388 *C.* 1904 [1] 275).
- $C_8H_7ONClBr$ *9) 4-Bromphenylamid d. Chloressigsäure. Sm. 179° (*Ar.* 241, 212 *C.* 1903 [2] 104).
- 14) 3-Bromphenylamid d. Chloressigsäure. Sm. 114° (*Ar.* 241, 211 *C.* 1903 [2] 104).
- $C_8H_{10}ONCl_2P$ 1) Äethylphenylamid d. Phosphorsäuredichlorid. Sd. 159°₁₀ (*A.* 326, 255 *C.* 1903 [1] 869).
- 2) 2,4-Dimethylphenylmonamid d. Phosphorsäuredichlorid. Sm. 79° (*A.* 326, 240 *C.* 1903 [1] 868).
- 3) 2,5-Dimethylphenylmonamid d. Phosphorsäuredichlorid. Sm. 119° (*A.* 326, 240 *C.* 1903 [1] 868).
- 4) 3,4-Dimethylphenylmonamid d. Phosphorsäuredichlorid. Sm. 76° (*A.* 326, 240 *C.* 1903 [1] 868).
- $C_8H_{10}O_2NSP$ 1) Diäthylmonamid d. Thiophosphorsäurediäthylester. Sd. 110°₁₀ (*A.* 326, 211 *C.* 1903 [1] 822).
- $C_8H_{10}O_3NBr_2P$ 1) 2,4-Dibromphenylmonamid d. Phosphorsäuremonoäthylester. K (*A.* 326, 235 *C.* 1903 [1] 867).
- $C_8H_{10}NCl_2SP$ 1) Äethylphenylmonamid d. Thiophosphorsäuredichlorid. Fl. (*A.* 326, 257 *C.* 1903 [1] 869).
- $C_8H_{11}ON_2ClS$ 1) 2-Methyläther-4-Äethyläther d. 6-Chlor-2-Merkapto-4-Oxy-5-Methyl-1,3-Diazin. Sm. 85° (*Am.* 32, 354 *C.* 1904 [2] 1415).
- $C_8H_{14}ONJ_3Hg_2$ 1) α -Verbindung (aus Methylheptenonoxim). Sm. 94° Pikrat (*A.* 329, 184 *C.* 1903 [2] 1413).
- 2) β -Verbindung (aus Methylheptenonoxim). Sm. 123° u. Zers. (*A.* 329, 185 *C.* 1903 [2] 1413).
- $C_8H_{18}ONCl_2P$ *1) Diisobutylmonamid d. Phosphorsäuredichlorid. Sm. 54° (*A.* 326, 185 *C.* 1903 [1] 820).
- $C_8H_{18}ONBr_2P$ 1) Diisobutylmonamid d. Phosphorsäuredibromid. Sm. 68° (*A.* 326, 194 *C.* 1903 [1] 820).
- $C_8H_{18}NCl_2SP$ *1) Diisobutylmonamid d. Thiophosphorsäuredichlorid. Sm. 36°; Sd. 150°₁₀ (*A.* 326, 213 *C.* 1903 [1] 822).

- $C_8H_{18}NBr_2SP$ 1) Diisobutylmonamid d. Thiophosphorsäuredibromid. Sm. 66° (A. 326, 216 C. 1903 [1] 822).
- $C_8H_{20}ON_2ClP$ 1) Di[Isobutylamid] d. Phosphorsäuremonochlorid. Sm. 86° (A. 326, 176 C. 1903 [1] 819).
- $C_8H_{20}O_2NSP$ 1) Isobutylmonamid d. Thiophosphorsäurediäthylester. Sd. 104°₁₂ (A. 326, 204 C. 1903 [1] 821).

C₉-Gruppe.

- C_9H_8 *1) Inden (B. 36, 640 C. 1903 [1] 717).
- C_9H_{10} *4) Phenylallylen. Sd. 181—185° (C. r. 135, 1347 C. 1903 [1] 328).
- *5) α -Phenylpropen. Sd. 174—175° (167—170°) (B. 36, 206 C. 1903 [1] 512; B. 36, 621 C. 1903 [1] 703; B. 36, 772 C. 1903 [1] 834; B. 36, 2572 C. 1903 [2] 495; B. 36, 3033 C. 1903 [2] 948; C. r. 139, 482 C. 1904 [2] 1038).
- *3) γ -Methylpropen. Sd. 156—157° (C. r. 139, 482 C. 1904 [2] 1038).
- *5) 4-Methylphenyläthen. Sd. 63°₁₅ (B. 36, 1636 C. 1903 [2] 26).
- C_9H_{12} *1) Propylbenzol. Sd. 157,5°₇₈₅ (B. 36, 622 C. 1903 [1] 703).
- *5) 1-Methyl-4-Aethylbenzol. Sd. 162,5°₇₈₀ (B. 36, 1637 C. 1903 [2] 26; B. 36, 1874 C. 1903 [2] 286).
- C_9H_{14} 12) 4-Methyl-1-Isopropyl-2,3-Dihydro-R-Penten (Anhydrocamphorylalkohol). Sd. 144—146° (B. 37, 237 C. 1904 [1] 726).
- 13) Kohlenwasserstoff (aus Pinonsäure). Fl. (B. 37, 239 C. 1904 [1] 726).
- C_9H_{16} *12) α -Cyklogeraniolen. Sd. 138—142°₇₃₅ (B. 37, 848 C. 1904 [1] 1145).
- *16) 4-Isopropyl-1-Methyl-2,3-Dihydro-R-Penten (Pulegen). Sd. 138—139° (A. 327, 131, 151 C. 1903 [1] 1412; A. 329, 108 C. 1903 [2] 1071).
- *17) Pulenen. Sd. 60—65°₁₂ (A. 329, 88 C. 1903 [2] 1071).
- 19) $\beta\zeta$ -Dimethyl- $\beta\epsilon$ -Heptadien. Sd. 140—142° (B. 37, 846 C. 1904 [1] 1145).
- 20) 3-Methylen-1,1,2-Trimethyl-R-Pentamethylen. Sd. 138—140° (C. r. 136, 1461 C. 1903 [2] 287).
- 21) Oktohydroinden. Sd. 163—164° (C. 1903 [2] 989).
- 22) Kohlenwasserstoff (aus 1-Oxy-1-Propylhexahydrobenzol). Sd. 154°₇₈₀ (C. r. 138, 1323 C. 1904 [2] 219).
- 23) Kohlenwasserstoff (aus α -Oxyisopropylhexahydrobenzol). Sd. 151° (C. r. 139, 345 C. 1904 [2] 704).
- C_9H_{18} *25) β -Nonen. Sd. 147—148° (B. 36, 2550 C. 1903 [2] 654).
- 28) Aethyl-R-Heptamethylen. Sd. 163—163,5°₇₄₀ (C. 1903 [1] 568; A. 327, 72 C. 1903 [1] 1124).

— 9 II —

- C_9H_5N C 85,0 — H 3,9 — N 11,0 — M. G. 127.
- 1) Nitril d. α -Phenyläthin- β -Carbonsäure (N. d. Phenylpropionsäure). Sm. 38—40° (B. 36, 3671 C. 1903 [2] 1313).
- C_9H_6O *3) Aldehyd d. Phenyläthin- α -Carbonsäure (C. r. 137, 125 C. 1903 [2] 569; B. 36, 4670 C. 1903 [2] 1313).
- $C_9H_6O_2$ *4) Isocumarin. Sm. 46° (B. 36, 573 C. 1903 [1] 710).
- *6) Phenylpropionsäure (Soc. 83, 1154 C. 1903 [2] 1369).
- $C_9H_6O_3$ 16) 4-Oxy-1,2-Benzpyron. Sm. 206° (B. 36, 464 C. 1903 [1] 636).
- 17) Verbindung (aus Isobrenzschleimsäure). Sm. 155—160° (C. r. 137, 923 C. 1904 [1] 291).
- $C_9H_6O_4$ *4) Daphnetin. K, + Kaliumacetat (Soc. 83, 134 C. 1903 [1] 89, 466).
- *6) Phthalidcarbonsäure. Sm. 153° (A. 334, 357 C. 1904 [2] 1054).
- 13) 7,8-Dioxy-1,4-Benzpyron + 2H₂O. Sm. 262° (wasserfrei) (B. 36, 128 C. 1903 [1] 468).
- 14) 1,2-Lakton d. 1-Oxymethylbenzol-2,5-Dicarbonsäure. Sm. 283 bis 284° (B. 36, 843 C. 1903 [1] 971).
- $C_9H_6O_5$ *2) Benzol-1-Carbonsäure-2-Ketocarbonsäure. Sm. 145°. K (M. 24, 933 C. 1904 [1] 515; A. 334, 359 C. 1904 [2] 1055).
- $C_9H_6O_6$ *3) Benzol-1,3,5-Tricarbonsäure. Sm. 380° (B. 36, 1799 C. 1903 [2] 283).
- $C_9H_6N_2$ 6) Nitril d. Phenylmalonsäure. Sm. 68—69°; Sd. 152—153°₁₂. Na, Ag (Am. 32, 123 C. 1904 [2] 953).

- $C_6H_5Cl_2$ 3) $\gamma\gamma$ -Dichlor- α -Phenylpropin. Sd. 131—132°₂₂ (C. r. 137, 127 C. 1903 [2] 569).
- $C_6H_5Cl_4$ 1) $\alpha\beta\gamma\gamma$ -Tetrachlor- α -Phenylpropen. Sd. 165—167°₂₈ (C. r. 137, 127 C. 1903 [2] 570).
- $C_6H_7Cl_3$ 2) $\beta\gamma\gamma$ -Trichlor- α -Phenylpropen. Sm. 47°; Sd. 155°₃₀ (C. r. 136, 1074 C. 1903 [1] 1345).
- C_6H_5O *1) Methyläther d. 4-Oxyphenyläthin. Sd. 85—88°₁₁ (B. 36, 915 C. 1903 [1] 970).
- *7) 2-Keto-2,3-Dihydroinden. Sm. 58° (A. 336, 3 C. 1904 [2] 1465).
- *9) γ -Keto- γ -Phenylpropen (Vinylphenylketon). Fl. (B. 36, 1355 C. 1903 [1] 1299).
- *10) Aldehyd d. β -Phenylakrylsäure. + $SbCl_5$, 2 + $SnCl_4$, 2 + $SnBr_4$, 4 + $ThCl_4$ (B. 37, 3666 C. 1904 [2] 1569).
- 16) polym. γ -Keto- γ -Phenylpropen (polym. Vinylphenylketon) (B. 36, 1355 C. 1903 [1] 1299).
- $C_6H_5O_2$ *7) Zimmtsäure. 3 + $SbCl_5$, + $FeCl_3$, 2 + $SnCl_4$ (B. 35, 4128 C. 1903 [1] 160; C. r. 136, 1332 C. 1903 [2] 107; B. 36, 4266 C. 1904 [1] 373; B. 37, 3668 C. 1904 [2] 1569).
- *8) Isozimmtsäure (B. 36, 176 C. 1903 [1] 582; B. 36, 903 C. 1903 [1] 1133; B. 36, 2497 C. 1903 [2] 721).
- *9) Allozimmtsäure. Ca + 2 H_2O , Ba + H_2O (B. 36, 182 C. 1903 [1] 582; B. 36, 904 C. 1903 [1] 1133; C. 1904 [2] 439).
- *10) isom. β -Phenylakrylsäure. Sm. 37° (B. 34, 3640; B. 37, 3361 C. 1904 [2] 1123).
- *12) Homococasäure (Protococasäure) (J. pr. [2] 66, 421 C. 1903 [1] 528).
- *13) Homoisococasäure (Protoisococasäure) (J. pr. [2] 66, 421 C. 1903 [1] 528).
- *27) isom. Isozimmtsäure (B. 36, 1448 C. 1903 [1] 1409).
- 28) Methylenäther d. 3,4-Dioxyphenyläthen. Sd. 107—108°₁₅ (223—225°) (B. 36, 3596 C. 1903 [2] 1366; G. 34 [1] 365 C. 1904 [2] 214; G. 34 [2] 176 C. 1904 [2] 648, 982).
- 29) Methylenäther d. polym. 3,4-Dioxyphenyläthen. Zers. bei 210° (G. 34 [1] 370 C. 1904 [2] 214).
- 30) 4-Oxymethylbenzofuran. Sm. 26—27°; Sd. 147—150°₁₃ (B. 37, 200 C. 1904 [1] 661).
- $C_6H_5O_3$ *1) 3,4-Methylenäther d. Methyl-3,4-Dioxyphenylketon. Sm. 87° (G. 34 [1] 364 C. 1904 [2] 214).
- *3) β -[2-Oxyphenyl]akrylsäure (B. 37, 346 C. 1904 [1] 662).
- *4) β -[3-Oxyphenyl]akrylsäure. Sm. 188—189° (B. 37, 4127 C. 1904 [2] 1735).
- *12) β -Phenyl- α -Ketoäthan- α -Carbonsäure (A. 333, 228 C. 1904 [2] 1389).
- *24) Laktone d. 1-Dioxymethylbenzoldimethyläther-2-Carbonsäure. Sm. 44°; Sd. 242—245° (M. 25, 497 C. 1904 [2] 325).
- 31) Formalphenyloxyessigsäure. Sm. 20°; Sd. 223° (R. 21, 316 C. 1903 [1] 137).
- 32) Methylester d. Benzol-1-Carbonsäure-2-Carbonsäurealdehyd. Sd. 220—222° (M. 25, 496 C. 1904 [2] 325).
- 33) 4-Aethyl-1,2-Phenyleneester d. Kohlensäure. Sd. 135—137°₁₂ (C. r. 138, 1702 C. 1904 [2] 436).
- $C_6H_5O_4$ *7) 3,4-Dioxyphenyllessigmethylenäthersäure. Sm. 128° (A. 332, 333 C. 1904 [2] 652).
- *18) Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 175° (M. 24, 936 C. 1904 [1] 515).
- *19) Benzol-1-Carbonsäure-3-Methylcarbonsäure. Sm. 184—185° (B. 36, 3611 C. 1903 [2] 1372).
- *43) Monomethylester d. Benzol-1,4-Dicarbonsäure (B. 37, 3222 C. 1904 [2] 1121).
- 49) Areolatol + H_2O . subl. bei 220° (J. pr. [2] 68, 60 C. 1903 [2] 513).
- 50) Gemischtes Peroxyd d. Essigsäure u. Benzolcarbonsäure. Sd. 128—130°₁₀ (Am. 29, 197 C. 1903 [1] 959).
- 51) Mono[4-Methylphenylester] d. Oxalsäure. Sm. 185—186° u. Zers. (D. R. P. 137584 C. 1903 [1] 112).
- $C_6H_5O_5$ *19) α -Oxy- α -Phenylmethan- α ,2-Dicarbonsäure. Ba + H_2O (A. 334, 358 C. 1904 [2] 1055).

- C₉H₈O₅** *21) 4-Oxybenzolzomethyläther-1,2-Dicarbonsäure. Sm. 167° (*C.* 1904 [1] 1597).
 *24) 2-Oxybenzolzomethyläther-1,4-Dicarbonsäure. Sm. 281° (*C.* 1904 [1] 1597).
 35) 1-Aldehyd d. 4,5-Dioxybenzol-5-Methyläther-1,3-Dicarbonsäure (D.R.P. 71162). — *II, 1122.
 36) Aldehyd d. 3-Oxybenzol-1-Carbonsäure-4-Kohlensäuremethylester. Sm. 98—99° (D.R.P. 93187). — *III, 76.
 37) 6-Acetat d. 2,6-Dioxy-1,4-Benzochinon-2-Methyläther. Zers. bei 275—278° (*M.* 23, 956 *C.* 1903 [1] 286).
- C₉H₈O₆** 6) 4-Oxyphenyltartronsäure. Sm. 118—120° u. Zers. K₂ (D.R.P. 115817 *C.* 1901 [1] 72). — *II, 1164.
 7) Dimethylester d. 1,4-Pyron-2,6-Dicarbonsäure. Sm. 122,5° (*B.* 37, 3751 *C.* 1904 [2] 1539).
- C₉H₈O₇** 3) 3,4-Dioxyphenyltartronsäure. Fl. Ba + H₂O (D.R.P. 115817 *C.* 1901 [1] 72). — *II, 1194.
- C₉H₈N₂** *3) 4-Phenylpyrazol. Sm. 228° (*B.* 36, 3778 *C.* 1904 [1] 41).
 *7) 1-[3-Pyridyl]pyrrol. Sd. 251° (*C. r.* 137, 861 *C.* 1904 [1] 104).
 *8) 2-[3-Pyridyl]pyrrol. Sm. 72° (*C. r.* 137, 861 *C.* 1904 [1] 104).
 *16) 2-Methyl-1,3-Benzodiazin. Sm. 41—42; Sd. 247,5—248°_{787,5} (*B.* 36, 810 *C.* 1903 [1] 1978).
 21) 5-Phenylimidazol. Sm. 128—129°. (2HCl, PtCl₄ + 3 H₂O) (*B.* 35, 4135 *C.* 1903 [1] 294).
 22) Nitril d. β-Phenylimidopropionsäure? Sm. 124° (*B.* 36, 3666 *C.* 1903 [2] 1312).
- C₉H₈Cl₂** 2) γγ-Dichlor-α-Phenylpropen. Sm. 54°; Sd. 142—143°₃₀ (*C. r.* 136, 94 *C.* 1903 [1] 457).
- C₉H₈Cl₄** 1) αβγγ-Tetrachlor-α-Phenylpropan. Sm. 66° (*C. r.* 136, 95 *C.* 1903 [1] 457).
- C₉H₈Br₄** 4) 2,3,5,6-Tetrabrom-4-Aethyl-1-Methylbenzol (*B.* 36, 1637 *C.* 1903 [2] 26).
- C₉H₈N** *17) Nitril d. 1,2-Dimethylbenzol-4-Carbonsäure. Sm. 66° (*B.* 36, 328 *C.* 1903 [1] 576).
 *18) Nitril d. 1,3-Dimethylbenzol-2-Carbonsäure. Sm. 90—91° (*B.* 36, 327 *C.* 1903 [1] 576).
 *19) Nitril d. 1,3-Dimethylbenzol-4-Carbonsäure. Sm. 24°; Sd. 223 bis 224° (*B.* 36, 327 *C.* 1903 [1] 576; *G.* 32 [2] 491 *C.* 1903 [1] 832).
 20) Nitril d. 1,2-Dimethylbenzol-3-Carbonsäure. Sd. 230—240° (*B.* 36, 329 *C.* 1903 [1] 576).
 21) Nitril d. 1,4-Dimethylbenzol-2-Carbonsäure. Sm. 5,5° (13—14°) (*B.* 36, 330 *C.* 1903 [1] 576; *G.* 32 [2] 484 *C.* 1903 [1] 831).
- C₉H₈N₃** *17) 5-Methyl-1-Phenyl-1,2,3-Triazol. HCl (*B.* 35, 4048 *C.* 1903 [1] 169).
- C₉H₈Cl** 3) α-Chlor-α-(4-Methylphenyl)äthen. Sd. 96—97,5°₁₃ (*B.* 36, 1876 *C.* 1903 [2] 286).
 4) β-Chlor-α-(4-Methylphenyl)äthen. Sm. 36—37°; Sd. 222—224°₇₆₀ (*B.* 36, 3908 *C.* 1903 [2] 1438).
- C₉H₈Br** *4) α-Brom-β-Phenylpropen. Sd. 225—228° (*C. r.* 135, 1346 *C.* 1903 [1] 328).
 5) β-Brom-α-Phenylpropen. Sd. 109—110°₃₀ (*B.* 36, 207 *C.* 1903 [1] 512).
 6) β-Brom-α-(4-Methylphenyl)äthen. Sm. 46,5—47,5° (*B.* 36, 3908 *C.* 1903 [2] 1439).
- C₉H₁₀O** *6) Methyläther d. 2-Oxyphenyläthen. Sd. 82—83°₁₁ (*B.* 36, 3590 *C.* 1903 [2] 1365).
 *7) Methyläther d. 4-Oxyphenyläthen. Sd. 204—205°₇₅₆ (*B.* 36, 3592 *C.* 1903 [2] 1366).
 *11) β-Keto-α-Phenylpropan. Sd. 210—212° (*A.* 325, 146 *C.* 1903 [1] 644).
 *12) Aethylphenylketon (*C. r.* 137, 576 *C.* 1903 [2] 1110; *C.* 1904 [1] 1259).
 *14) Methyl-4-Methylphenylketon (*C. r.* 136, 558 *C.* 1903 [1] 832).
 *15) Aldehyd d. α-Phenylpropionsäure. Sd. 204° (*C. r.* 137, 1261 *C.* 1904 [1] 445).
 *18) Aldehyd d. 1,3-Dimethylbenzol-4-Carbonsäure. Sd. 219—229° (*C.* 1901 [2] 772; *G.* 32 [1] 486 *C.* 1903 [1] 831; *Soc.* 85, 217 *C.* 1904 [1] 656, 939).
 *20) Aldehyd d. 1,4-Dimethylbenzol-2-Carbonsäure. Sd. 100°₁₀ (*G.* 32 [2] 477 *C.* 1903 [1] 830).

- C₉H₁₀O**
- 26) Methyläther d. α -Oxy- α -Phenyläthen. Sd. 197° (*C. r.* 137, 261 *C. 1903* [2] 664; *C. r.* 138, 287 *C. 1904* [1] 719; *Bl.* [3] 31, 525 *C. 1904* [1] 1552).
- 27) Methyläther d. β -Oxy- α -Phenyläthen. Sd. 210—213° (*C. r.* 138, 288 *C. 1904* [1] 720; *Bl.* [3] 31, 527 *C. 1904* [1] 1552).
- 28) Methyläther d. 3-Oxyphenyläthen. Sd. 89—90₁₄° (*B. 36*, 3592 *C. 1903* [2] 1366).
- 29) 4-Methyl-1,2-Dihydrobenzofuran. Sd. 210—211° (*B. 36*, 2877 *C. 1903* [2] 834).
- 30) Aldehyd d. 1-Aethylbenzol-4-Carbonsäure. Sd. 221° (*C. r.* 136, 558 *C. 1903* [1] 832).
- C₉H₁₀O₂**
- *7) Methyl-4-Oxy-2-Methylphenylketon. Sm. 128°; Sd. 313° (*C. 1904* [1] 1597).
- *9) Methyläther d. Methyl-2-Oxyphenylketon. Sd. 239₇₅₇° (*B. 36*, 3589 *C. 1903* [2] 1365).
- *10) Methyläther d. Methyl-3-Oxyphenylketon. Sd. 238—240₇₅₆° (*B. 36*, 3591 *C. 1903* [2] 1366).
- *17) β -Phenylpropionsäure. Sm. 48°. Ca, Ba (*B. 35*, 905 *C. 1903* [1] 1133; *C. r.* 138, 1049 *C. 1904* [1] 1493; *C. 1904* [2] 1697).
- *20) 4-Methylphenyllessigsäure. Sm. 91° (*B. 36*, 3515 *C. 1903* [2] 1275).
- *23) 1-Aethylbenzol-4-Carbonsäure. Sm. 112° (*B. 36*, 3906 *C. 1903* [2] 1438).
- *25) 1,2-Dimethylbenzol-4-Carbonsäure. + H₂SO₄ (*R. 21*, 351 *C. 1903* [1] 150).
- *27) 1,3-Dimethylbenzol-4-Carbonsäure. + 1 $\frac{1}{2}$ H₂SO₄ (*R. 21*, 351 *C. 1903* [1] 150).
- *28) 1,3-Dimethylbenzol-5-Carbonsäure. + H₂SO₄ (*R. 21*, 351 *C. 1903* [1] 150).
- *29) 1,4-Dimethylbenzol-2-Carbonsäure. + H₂SO₄ (*R. 21*, 351 *C. 1903* [1] 150).
- *43) Aethylester d. Benzolcarbonsäure. + AlCl₃ (*B. 36*, 3087 *C. 1903* [2] 1004; *Soe.* 85, 1107 *C. 1904* [2] 976).
- *53) Aethyl-2-Oxyphenylketon. Sd. 115₁₅° (*B. 36*, 2586 *C. 1903* [2] 621).
- 56) Methylenäther d. 3,4-Dioxy-1-Aethylbenzol. Sd. 212—213₇₅₉° (*B. 36*, 3596 *C. 1903* [2] 1367).
- 57) α -Oxy- β -Keto- α -Phenylpropan. Sd. 135₄₀° (*G. 33* [2] 263 *C. 1904* [1] 24).
- 58) β -Oxyäthylphenylketon. Sm. 190° (*B. 36*, 1356 *C. 1903* [1] 1299).
- 59) Methyl-2-Oxy-4-Methylphenylketon. Sm. 21°; Sd. 245₇₈₀° (*C. 1904* [1] 1597).
- 60) 3-Methyleykloheptatriëncarbonsäure. Sm. 107—108°. Ag (*B. 36*, 3516 *C. 1903* [2] 1275).
- 61) 3-Methylnorcaradiëncarbonsäure. Fl. (*B. 36*, 3515 *C. 1903* [2] 1275).
- 62) Aldehyd d. 4-Oxy-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 11°; Sd. 222° (*B. 35*, 4108 *C. 1903* [1] 150).
- 63) Aldehyd d. 3-Oxy-1,4-Dimethylbenzol-2-Carbonsäure. Sm. 62—63° (*B. 35*, 4108 *C. 1903* [1] 150).
- 64) Aldehyd d. 4-Oxyphenyllessigmethyläthersäure. Sd. 255—256° (*C. r.* 134, 1505). — *III, 66.
- 65) Aldehyd d. 5-Oxy-1-Methylbenzolzomethyläther-2-Carbonsäure. Sd. 257° (*B. 31*, 1151). — *III, 64.
- 66) Aldehyd d. 6-Oxy-1-Methylbenzolzomethyläther-3-Carbonsäure. Sd. 251° (*B. 31*, 1151). — *III, 65.
- C₉H₁₀O₃**
- *8) α -Oxy- α -Phenylpropionsäure + $\frac{1}{2}$ H₂O. Sm. 94° (89—90°) (*B. 36*, 1406 *C. 1903* [1] 1347; *B. 36*, 4315 *C. 1904* [1] 449).
- *12) α -Oxy- β -Phenylpropionsäure. Sm. 96° (*B. 36*, 4313 *C. 1904* [1] 449).
- *27) 4-Methoxyphenyllessigsäure. Sm. 86°. Ag (*A. 332*, 326 *C. 1904* [2] 651).
- *41) 5-Oxy-1-Methylbenzolzomethyläther-2-Carbonsäure. Sm. 176° (*C. 1904* [1] 1597).
- *47) 3-Oxy-1-Methylbenzolzomethyläther-4-Carbonsäure. Sm. 104° (*C. 1904* [1] 1597).
- *50) 4-Oxybenzolzomethyläther-1-Carbonsäure (*C. r.* 136, 378 *C. 1903* [1] 636).

$C_9H_{10}O_3$

*60) Aldehyd d. 3,4-Dioxybenzoldimethyläther-1-Carbonsäure (B. 37, 3402 C. 1904 [2] 1318).

*62) Methylester d. α -Oxyphenylessigsäure. Sm. 58°; Sd. 144°₉₀. + 4 AlCl₃ (B. 37, 2767 C. 1904 [2] 708; Soc. 85, 1107 C. 1904 [2] 976).

*88) α -[4-Oxyphenyl]propionsäure. Sm. 130° (A. 227, 268; C. r. 131, 270). — *II, 930.

93) 3,4-Methylenäther d. 3,4-Dioxy-1-[α -Oxyäthyl]benzol. Sd. 137 bis 138°₁₄ (268—270°) (B. 36, 3595 C. 1903 [2] 1366; G. 34 [1] 361 C. 1904 [2] 214).

94) 5-Methyläther d. Methyl-2,5-Dioxyphenylketon. Sm. 52° (B. 37, 774 Anm. C. 1904 [1] 1155).

95) 1- α -Oxy- α -Phenylpropionsäure. Sm. 90—91,5° (Soc. 85, 1260 C. 1904 [2] 1304).

96) Aldehyd d. 4,5-Dioxy-1-Methylbenzol-4-Methyläther-2-Carbonsäure. Sm. 165° (D.R.P. 91170). — *III, 77.

97) Aldehyd d. 3,4-Dioxybenzol-3-Aethyläther-1-Carbonsäure. Sm. 77,5° (D.R.P. 81071, 81352, 85196, 90395). — *III, 74.

98) Methylester d. 1- α -Oxyphenylessigsäure (C. r. 124, 196). — *II, 925.

 $C_9H_{10}O_4$

*11) r - α -Oxy- α -[4-Methoxyphenyl]essigsäure. Sm. 108—109° (B. 37, 3174 C. 1904 [2] 1303).

*18) 2,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 108° (M. 24, 890 C. 1904 [1] 512).

*21) 3,4-Dioxybenzoldimethyläther-1-Carbonsäure + 2 H₂O. Sm. 179 bis 180° (Soc. 83, 621 C. 1903 [1] 591; B. 37, 2152 C. 1904 [2] 207).

*22) 3,5-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 180—181° (180°) (B. 35, 3901 C. 1903 [1] 27; B. 36, 2303 C. 1903 [2] 578).

*34) Aldehyd d. 3,4,5-Trioxybenzol-3,5-Dimethyläther-1-Carbonsäure. Sm. 113° (B. 36, 1032 C. 1903 [1] 1223).

*35) Methylester d. 3,5-Dioxy-1-Methylbenzol-2-Carbonsäure. Sm. 140° (M. 24, 898 C. 1904 [1] 512).

*55) Methoxymethylester d. 2-Oxybenzol-1-Carbonsäure (Mesotan). Sd. 153°₃₂ (C. 1903 [1] 1155; D.R.P. 137585 C. 1903 [1] 112).

57) Aethyl-2,3,4-Trioxyphenylketon. Sm. 127° (D.R.P. 42149, 50451). — *III, 115.

58) Monomethyläther d. Methyl-2,3,4-Trioxyphenylketon + H₂O. Sm. 132—133° (wasserfrei) (Soc. 83, 131 C. 1903 [1] 89, 466).

59) d- α - β -Dioxy- β -Phenylpropionsäure. Sm. 166—167°. Zn + 6 H₂O (B. 30, 1608). — *II, 1034.

60) l- α - β -Dioxy- β -Phenylpropionsäure. Sm. 166—167°. Zn + 2 H₂O (B. 30, 1608). — *II, 1034.

61) d- α -Oxy- α -[4-Methoxyphenyl]essigsäure. Sm. 104—105°. Cinchoninsalz (B. 37, 3175 C. 1904 [2] 1304).

62) l- α -Oxy- α -[4-Methoxyphenyl]essigsäure. Sm. 104—105°. Cinchoninsalz (B. 37, 3175 C. 1904 [2] 1304).

63) 3,5-Dioxy-1-Methylbenzol- β -Methyläther-2-Carbonsäure. Sm. 169 bis 170° (M. 24, 897 C. 1904 [1] 512).

64) 3,5-Dioxy-1-Methylbenzol-3-Methyläther-4-Carbonsäure. Sm. 145 bis 146° (M. 24, 900 C. 1904 [1] 513).

65) Anhydrid d. β -Hepten- γ -Oxyd- α - β -Dicarbonsäure. Sm. 182° (A. 331, 193 C. 1904 [1] 1213).

66) Aldehyd d. 2,4,6-Trioxy-1,3-Dimethylbenzol-5-Carbonsäure. Zers. bei 190° (M. 24, 878 C. 1904 [1] 369).

67) Aldehyd d. 2,4,6-Trioxybenzol-2,4-Dimethyläther-1-Carbonsäure. Sm. 70—71° (M. 24, 861 C. 1904 [1] 367).

68) Methylester d. 3,5-Dioxy-1-Methylbenzol-2-Carbonsäure. Sm. 98 bis 99° (M. 24, 895 C. 1904 [1] 512).

69) Methylester d. 2,6-Dioxy-1-Methylbenzol-3-Carbonsäure. Sm. 126 bis 128° (130—132°) (M. 24, 117 C. 1903 [1] 967; M. 24, 909 C. 1904 [1] 513).

70) Methylester d. 2,4-Dioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 48—50° (M. 24, 887 C. 1904 [1] 512).

 $C_9H_{10}O_5$

*3) 3,4,5-Trioxybenzol-3,5-Dimethyläther-1-Carbonsäure (Syringensäure). Sm. 202° (B. 36, 216 C. 1903 [1] 455).

*25) Methylester d. 3,4,5-Trioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 147,5° (B. 36, 216 C. 1903 [1] 455).

- $C_9H_{10}O_5$ 26) 2,3,4-Trioxybenzol-3,4-Dimethyläther-1-Carbonsäure. Sm. 169 bis 172° (*B.* 36, 661 *C.* 1903 [1] 710; *M.* 25, 513, 518 *C.* 1904 [2] 1118).
- 27) Dimethylester d. γ -Keto- $\alpha\delta$ -Pentadien- $\alpha\epsilon$ -Dicarbonsäure. Sm. 169 bis 169,5° (*B.* 37, 3295 *C.* 1904 [2] 1041).
- 28) 1-Aethylcarbonat d. 1,2,3-Trioxybenzol. Sm. 74° (*B.* 37, 108 *C.* 1904 [1] 554).
- 29) Verbindung (aus γ -Keto- $\alpha\delta$ -Pentadien- $\alpha\epsilon$ -Dicarbonsäuredimethylester). Sm. 240—241° u. Zers. (*B.* 37, 3296 *C.* 1904 [2] 1041).
- $C_9H_{10}O_{10}$ 2) Butan- $\alpha\alpha\beta\beta\delta$ -Pentacarbonsäure. Fl. Ag₅ (*Soc.* 85, 612 *C.* 1904 [1] 1254, 1553).
- $C_9H_{10}N_2$ *4) 4-Phenyl-4,5-Dihydropyrazol. Fl. HCl, (2HCl, PtCl₄), (HCl, AuCl₃), Oxalat (*B.* 36, 3777 *C.* 1904 [1] 41).
- *18) 2-Methyl-3,4-Dihydro-1,3-Benzdiazin. Pikrat (*B.* 36, 813 *C.* 1903 [1] 979).
- *21) Nitril d. α -Phenylamidopropionsäure. Sm. 92° (D.R.P. 142559 *C.* 1903 [2] 81).
- *24) Nitril d. 4-Methylphenylamidoessigsäure. Sm. 61° (57°) (D.R.P. 138098 *C.* 1903 [1] 208; D.R.P. 142559 *C.* 1903 [2] 81; *B.* 37, 4082 *C.* 1904 [2] 1723).
- *28) Nitril d. 4-Dimethylamidobenzol-1-Carbonsäure. Sm. 76°; Sd. 318°₇₅₈ (*B.* 37, 1739 *C.* 1904 [1] 1599).
- *30) Nitril d. 2-Methylphenylamidoessigsäure (D.R.P. 138098 *C.* 1903 [1] 208).
- 34) $\alpha\beta$ -Benzylidenhydrazonäthan. Sm. 208° (*J. pr.* [2] 67, 144 *C.* 1903 [1] 865).
- 35) 3-Methyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 91—92°; Sd. 309°₇₈₈. Pikrat (*B.* 37, 3646 *C.* 1904 [2] 1513).
- 36) Nitril d. Methylphenylamidoessigsäure. Sm. 13°; Sd. 266° (*B.* 37, 2636 *C.* 1904 [2] 518; *B.* 37, 2825 *C.* 1904 [2] 702; *B.* 37, 4083 *C.* 1904 [2] 1723).
- $C_9H_{10}N_4$ 13) 1-Phenylamido-5-Methyl-1,2,3-Triazol (*A.* 325, 158 *C.* 1903 [1] 644).
- $C_9H_{10}Cl_2$ 5) Dichlortrimethylbenzol. Sm. 77° (*Soc.* 79, 144 *C.* 1904 [1] 88).
- 6) Verbindung (aus 4-Oxy-1-Dichlormethyl-1,4-Dimethyl-1,4-Dihydrobenzol). Sd. 118—123°₁₁ (*B.* 36, 1871 *C.* 1903 [2] 286).
- $C_9H_{10}Br_2$ *2) $\alpha\beta$ -norm. Dibrompropylbenzol. Sm. 70° (*C. r.* 139, 482 *C.* 1904 [2] 1038).
- *5) 4-[$\alpha\beta$ -Dibromäthyl]-1-Methylbenzol. Sm. 45° (*B.* 36, 1637 *C.* 1903 [2] 26).
- $C_9H_{11}N$ *11) *r*-2-Methyl-2,3-Dihydroindol. Sd. 225—226° (*Soc.* 85, 1331 *C.* 1904 [2] 1657).
- 21) α -d-1-Amido-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat (*Soc.* 83, 878 *C.* 1903 [2] 504; *Soc.* 83, 908 *C.* 1903 [2] 504).
- 22) β -d-1-Amido-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat (*Soc.* 83, 890 *C.* 1903 [2] 504; *Soc.* 83, 909 *C.* 1903 [2] 504).
- 23) α -1-1-Amido-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat (*Soc.* 83, 879 *C.* 1903 [2] 504; *Soc.* 83, 912 *C.* 1903 [2] 504).
- 24) β -1-1-Amido-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat (*Soc.* 83, 890 *C.* 1903 [2] 504; *Soc.* 83, 912 *C.* 1903 [2] 504).
- 25) d-2-Methyl-2,3-Dihydroindol. Sd. 225°? (*Soc.* 85, 1334 *C.* 1904 [2] 1657).
- 26) l-2-Methyl-2,3-Dihydroindol. Sd. 228—229°. HCl, d-Bromcamphersulfonat (*Soc.* 85, 1331 *C.* 1904 [2] 1657).
- $C_9H_{11}Br$ 14) γ -Brom- α -Phenylpropan. Sd. 110°₁₉ (*C. r.* 138, 1049 *C.* 1904 [1] 1493).
- $C_9H_{11}J$ *1) 4-Jod-1-Propylbenzol. Sd. 240—242° (*A.* 327, 303 *C.* 1903 [2] 353).
- 7) 4-Jod-3-Aethyl-1-Methylbenzol. Sm. 34°; Sd. 222—225° (*J. pr.* [2] 69, 436 *C.* 1904 [2] 589).
- $C_9H_{12}O$ *1) α -Oxypropylbenzol. Sd. 106—108°₁₈ (*B.* 37, 2055 *C.* 1904 [2] 182).
- *18) Methyläther d. 2-Oxy-1-Aethylbenzol. Sd. 186—188°₇₃₈ (*B.* 36, 3591 *C.* 1903 [2] 1366).

- C₆H₁₂O**
- *21) Aethyläther d. Oxymethylbenzol. Sd. 187—189°₇₃₂ (B. 37, 3190 C. 1904 [2] 1109; B. 37, 3695 C. 1904 [2] 1387).
 - *25) Propylphenyläther. Sd. 190—191° (B. 36, 2062 C. 1903 [2] 357).
 - *26) Isopropylphenyläther. Sd. 176° (B. 36, 2062 C. 1903 [2] 357).
 - *32) 4-[α-Oxyäthyl]-1-Methylbenzol. Sd. 219°₇₅₈ (B. 36, 1635 C. 1903 [2] 26).
 - *34) Methyläther d. 4-Oxy-1-Aethylbenzol. Sd. 196—197°₇₈₂ (B. 36, 3593 C. 1903 [2] 1366).
 - 35) 2-Oxymethyl-1,4-Dimethylbenzol. Sd. 232—234° (G. 32 [2] 486 C. 1903 [1] 831).
 - 36) Methyläther d. β-Oxy-α-Phenyläthan. Sd. 189—190° (C. r. 138, 814 C. 1904 [1] 1195).
 - 37) Methyläther d. 3-Oxy-1-Aethylbenzol. Sd. 196—197°₇₅₈ (B. 36, 3592 C. 1903 [2] 1366).
 - 38) Methyläther d. 2-Methyl-1-Oxymethylbenzol. Sd. 187—188°₇₆₀ (D.R.P. 154658 C. 1904 [2] 1355).
 - 39) Methyläther d. 5-Oxy-1,3-Dimethylbenzol. Sd. 193° (R. 21, 328 C. 1903 [1] 78).
- C₆H₁₂O₂**
- *10) 5-Oxy-2-Oxymethyl-1,4-Dimethylbenzol (B. 36, 1889 C. 1903 [2] 291).
 - *32) α-Camphylsäure. Sm. 148°; Sd. 248°₇₄₀ (Soc. 83, 849 C. 1903 [2] 571).
 - *33) β-Camphylsäure. Sm. 105—106°; Sd. 248°₇₄₀ u. ger. Zers. Ag (Soc. 83, 867 C. 1903 [2] 573).
 - *38) 1-Oxy-4-Keto-1,3,5-Trimethyl-1,4-Dihydrobenzol (B. 36, 2033 C. 1903 [2] 360).
 - *41) i-α-Oxy-α-[2-Oxyphenyl]propan. Sd. 125—130°_{0,25} (B. 36, 2586 C. 1903 [2] 621).
 - *42) αβ-Dioxy-β-Phenylpropan. Sm. 38° (C. r. 137, 1261 C. 1904 [1] 445).
 - 48) 3,4-Dioxy-1-Isopropylbenzol. Sm. 78°; Sd. 270—272° (C. r. 138, 1702 C. 1904 [2] 436).
 - 49) 4,6-Dioxy-1,2,3-Trimethylbenzol. Sm. 163—164° (A. 329, 309 C. 1904 [1] 794).
 - 50) 3,5-Dioxy-1,2,2-Trimethylbenzol. Sm. 160—162° (M. 24, 913 C. 1904 [1] 513).
 - 51) 2-Oxy-5-Oxymethyl-1,3-Dimethylbenzol. Sm. 104,5—105° (B. 36, 2035 C. 1903 [2] 360).
 - 52) 2-Methyläther d. 2-Oxy-1-[α-Oxyäthyl]benzol. Sd. 119—120°₁₁ (B. 36, 3588 C. 1903 [2] 1365).
 - 53) 3-Methyläther d. 3-Oxy-1-[α-Oxyäthyl]benzol. Sd. 132—133°₁₂ (B. 36, 3591 C. 1903 [2] 1366).
 - 54) 4-Methyläther d. 4-Oxy-1-[α-Oxyäthyl]benzol. Fl. (B. 36, 3592 C. 1903 [2] 1366).
 - 55) 5-Methyläther d. 2,5-Dioxy-1,3-Dimethylbenzol. Sm. 77—77,5° (B. 36, 2040 C. 1903 [2] 360).
 - 56) 1-Oxy-4-Keto-1,2,5-Trimethyl-1,4-Dihydrobenzol. Sm. 116—116,5° (B. 36, 2038 C. 1902 [2] 360; B. 36, 1627 C. 1903 [2] 31).
 - 57) β-Methyl-β₇-Heptenin-η-Carbonsäure. Sd. 160—164°₂₄ (C. r. 134, 554 C. 1903 [1] 825).
 - 58) 2-Methyl-R-Penten-4-[Aethyl-β-Carbonsäure]. Sm. 64—65° (B. 36, 950 C. 1903 [1] 1022).
 - 59) Lakton (aus Umbellulon). Sd. 217—221° (Soc. 85, 645 C. 1904 [1] 1608 C. 1904 [2] 330).
 - 60) Verbindung (aus 2,6-Dimethylphenylhydroxylamin). Sm. 139,5—140,5° (B. 36, 2040 C. 1903 [2] 360).
- C₆H₁₂O₃**
- *5) 2,4,6-Trioxyl-1,3,5-Trimethylbenzol + 3H₂O. Sm. 184° (wasserfrei) (A. 329, 281 C. 1904 [1] 796).
 - *11) Trimethyläther d. 1,2,3-Trioxybenzol. Sm. 47°; Sd. 235° (A. 327, 116 C. 1903 [1] 1214; M. 25, 516 C. 1904 [2] 1118).
 - *13) Trimethyläther d. 1,3,5-Trioxybenzol. Sm. 52° (Ar. 242, 505 C. 1904 [2] 1386).
 - *16) α-Phenyläther d. αβγ-Trioxypropan. Sm. 56° (B. 36, 2064 C. 1903 [2] 357).
 - *26) Aethylester d. 2,5-Dimethylfuran-3-Carbonsäure. Sd. 210—214°₇₄₀ (B. 37, 2188 C. 1904 [2] 240).

- $C_8H_{12}O_8$ *32) 2-Methyläther d. 2,4,6-Trioxo-1,3-Dimethylbenzol + H_2O . Sm. 148—150° (A. 329, 284 C. 1904 [1] 796).
 34) 3,4-Dimethyläther d. 3,4-Dioxy-1-Oxymethylbenzol. Sd. 296—297°₇₃₂ (B. 37, 3403 C. 1904 [2] 1318).
 35) 4,6-Dioxy-2-Keto-1,1,5-Trimethyl-1,2-Dihydrobenzol. Sm. 180 bis 181° (M. 24, 111 C. 1903 [1] 967).
 36) Methylfällsäure. Sm. 178—180° (A. 329, 292 C. 1904 [1] 796).
 37) Äthylester d. 2,4-Dimethylfuran-3-Carbonsäure. Sd. 97°₁₀ (B. 35, 1539, 1545). — *III, 507.
- $C_8H_{10}O_4$ 29) 2,6-Diketohexahydrobenzol-1-Propionsäure. Sm. 181—182° (B. 37, 3823 C. 1904 [2] 1607).
- $C_8H_{12}O_5$ 16) β -Hepten- γ -Oxyd- $\alpha\beta$ -Dicarbonsäure (Valaktenbernsteinsäure). Ba, Ag₂ (A. 331, 193 C. 1904 [1] 1213).
 17) $\beta\gamma$ -Anhydrid d. β -Methylpentan- $\beta\gamma\epsilon$ -Tricarbonsäure. Sm. 155—157°; Sd. 255° (Soc. 85, 136 C. 1904 [1] 727).
- $C_8H_{12}O_6$ 20) Monoäthylester d. 1-Methyl-R-Trimethylen-2,2,3-Tricarbonsäure + 2[3] H_2O . Sm. 70—71°. Ag₂ (B. 17, 2834; B. 36, 1086 C. 1903 [1] 1126). — I, 819.
- $C_8H_{12}O_8$ 6) Succinglutarperoxyd. Sm. 107° u. Zers. (Am. 32, 64 C. 1904 [2] 766).
 $C_8H_{12}N_2$ 19) α -Imido- β -Amido- α -Phenylpropan (A. 291, 270). — *III, 113.
 20) Äethyl-2-Amidobenzylidenamin. Fl. (B. 37, 3656 C. 1904 [2] 1514).
 21) 1-Hydrazonmethyl-4-Äethylbenzol. Sm. 101° (C. r. 136, 558 C. 1903 [1] 832).
 22) 2-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin. Pikrat (B. 36, 812 C. 1903 [1] 979).
- $C_8H_{12}Cl_2$ 1) 3,5-Dichlor-1,1,6-Trimethyl-1,2-Dihydrobenzol. Sd. 120—125°₉₁ (C. 1904 [1] 88).
- $C_8H_{13}N$ *9) 4-Amido-1-Propylbenzol. Sd. 224—226° (A. 327, 301 C. 1903 [2] 353).
 51) 4-Amido-3-Äethyl-1-Methylbenzol. Sd. 218—220°. H_2SO_4 (J. pr. [2] 69, 436 C. 1904 [2] 589).
 52) 4-tert. Butylpyridin. Sd. 196—197°. (2HCl, PtCl₄), (HCl, AuCl₃) (B. 36, 2911 C. 1903 [2] 890).
 53) Nitril d. r- α -Campholytsäure. Sd. 200—205° (C. r. 138, 696 C. 1904 [1] 1086).
- $C_8H_{14}O$ *5) Isocamphoron (Soc. 81, 1526 C. 1903 [1] 157).
 *6) Campherphoron (A. 331, 318 C. 1904 [1] 1567).
 *26) Pulegenon. Sd. 189—190° (A. 327, 133 C. 1903 [1] 1412).
 28) β -[4-Ketohexahydrophenyl]propen. Sd. 184—186° (Soc. 85, 670 C. 1904 [2] 331).
 29) Pinophoron. Sd. 203—205° (B. 37, 239 C. 1904 [1] 726).
 30) Vetriol. Sd. 150—155°₁₀ (D.R.P. 142416 C. 1903 [2] 229).
 31) Aldehyd d. α -Oktin- α -Carbonsäure. Sd. 90—92°₁₈ (C. r. 138, 1341 C. 1904 [2] 187).
- $C_8H_{14}O_2$ *9) i- α -Campholytsäure. Sd. 160—162°₄₅ (Soc. 83, 853 C. 1903 [2] 572; Soc. 85, 147 C. 1904 [1] 728).
 *17) Isocampholaktone. Sm. 32° (Am. 32, 290 C. 1904 [2] 1222).
 *44) α -Oktin- α -Carbonsäure. Sd. 154—156°₁₈ (C. r. 136, 554 C. 1903 [1] 825; B. [3] 29, 658 C. 1903 [2] 487).
 57) ζ -Methyl- α -Heptin- α -Carbonsäure. Sm. — 16 bis — 12°; Sd. 169 bis 172°₃₈ (C. r. 136, 554 C. 1903 [1] 825).
 58) 1,3-Dimethyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure. Fl. (D.R.P. 148206 C. 1904 [1] 485).
 59) Laktone d. 5-Oxy-1,3-Dimethylhexahydrobenzol-2-Carbonsäure. Sd. 129—131°₁₂ (D.R.P. 148207 C. 1904 [1] 486).
 60) isom. Laktone d. 5-Oxy-1,3-Dimethylhexahydrobenzol-2-Carbonsäure. Sd. 129—131°₁₂ (D.R.P. 148207 C. 1904 [1] 486).
 61) Laktone d. i-5-Oxy-1,1,2-Trimethyl-R-Pentamethylen-2-Carbonsäure (Isocampholaktone). Sd. 155—157°₅₀ (C. 1903 [1] 923; Soc. 85, 143 C. 1904 [1] 728).
 62) Methylster d. ϵ -Methyl- α -Hexin- α -Carbonsäure. Sd. 98—99°₁₈ (C. r. 136, 553 C. 1903 [1] 825).
 63) Äthylester d. α -Hexin- α -Carbonsäure. Sd. 106—108°₂₄ (C. r. 136, 553 C. 1903 [1] 824).

- $C_9H_{14}O_2$ 64) Aethylester d. $\gamma\gamma$ -Dimethyl- α -Butin- α -Carbonsäure. Sd. 75°_{15} (*C. r.* 136, 553 *C.* 1903 [1] 824).
- $C_9H_{14}O_3$ *30) Aethylester d. 4-Keto-1-Methyl-R-Pentamethylen-3-Carbonsäure. Sd. 118°_{18} (*C. r.* 136, 1613 *C.* 1903 [2] 440).
- *32) Aethylester d. 2-Keto-1-Methyl-R-Pentamethylen-3-Carbonsäure. Sd. 113°_{22} (*C.* 1903 [2] 23).
- 35) i-Camphononsäure. Sm. 232° (*Am.* 28, 484 *C.* 1903 [1] 329).
- 36) Säure (aus Umbellulon). Ba (*Soc.* 85, 645 *C.* 1904 [2] 330).
- 37) 5-Keto-1,3-Dimethylhexahydrobenzol-1-Carbonsäure + H_2O . Sm. $124-125^\circ$ (wasserfrei) (*B.* 37, 4062 *C.* 1904 [2] 1650; *B.* 37, 4071 *C.* 1904 [2] 1652).
- 38) Methylester d. 3-Keto-1,2-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sd. $105-106^\circ_{15}$ (*C. r.* 138, 210 *C.* 1904 [1] 662).
- 39) Aethylester d. 4-Ketohexahydrobenzol-1-Carbonsäure. Sd. 158°_{40} (*Soc.* 85, 427 *C.* 1904 [1] 1439).
- $C_9H_{14}O_4$ *31) Aethylester d. $\beta\epsilon$ -Diketohecan- γ -Carbonsäure. Sd. $161-163^\circ_{50-51}$ (*C.* 1903 [2] 1281).
- *35) Diäthylester d. Propen- $\alpha\gamma$ -Dicarbonsäure. Sd. $129-131^\circ_{16}$ (*Bl.* [3] 29, 1012 *C.* 1903 [2] 1315).
- *61) Aethylester d. $\alpha\gamma$ -Diketohecan- α -Carbonsäure. Sd. $228-232^\circ$ u. Zers. Na, Cu (*Soc.* 81, 1490 *C.* 1903 [1] 138).
- *63) Aethylester d. $\gamma\epsilon$ -Diketo- β -Methylpentan- ϵ -Carbonsäure. Sd. 230 bis 232° u. Zers. Na, Ca, Ba, Cu, Co (*Soc.* 81, 1486 *C.* 1903 [1] 138).
- 64) Hexahydrobenzol-1-Carbonsäure-3-Methylcarbonsäure. Sm. 158° (*B.* 36, 3611 *C.* 1903 [2] 1372).
- 65) $\beta\delta$ -Lakton d. δ -Oxypentan- $\beta\gamma$ -Dicarbonsäure- γ -Aethylester. Sd. 142°_{14} (*B.* 37, 1616 *C.* 1904 [1] 1403).
- 66) $\beta\delta$ -Lakton d. β -Oxy- β -Methylbutan- $\alpha\delta$ -Dicarbonsäure- α -Aethylester. Sd. $285-287^\circ$ (*B.* 36, 953 *C.* 1903 [1] 1017).
- 67) δ -Aethylester d. β -Methyl- β -Buten- $\gamma\delta$ -Dicarbonsäure. Sm. 118 bis 120° (*J. pr.* [2] 67, 199 *C.* 1903 [1] 869).
- $C_9H_{14}O_6$ *5) Trioxydihydro- α -Camphylsäure. Sm. $148-150^\circ$ u. Zers. Ba (*Soc.* 83, 855 *C.* 1903 [2] 572).
- 26) δ -Ketoheptan- $\alpha\eta$ -Dicarbonsäure. Sm. $101-102^\circ$ (u. Sm. $108-109^\circ$) (*B.* 37, 3817 *C.* 1904 [2] 1606).
- 27) Ketodioxyhydro- β -Camphylsäure. Fl. (*Soc.* 83, 872 *C.* 1903 [2] 574).
- $C_9H_{14}O_6$ 33) isom. β -Methylpentan- $\beta\gamma\epsilon$ -Tricarbonsäure. Sm. $155-157^\circ$ (*C.* 1903 [1] 923; *Soc.* 85, 135 *C.* 1904 [1] 727).
- 34) γ -Methylpentan- $\alpha\delta\delta$ -Tricarbonsäure. Sm. 159° (*C.* 1903 [2] 1425).
- 35) Säure (aus Bernsteinsäuremonoäthylester) (*Bl.* [3] 29, 1046 *C.* 1903 [2] 1424).
- $C_9H_{15}N$ *9) Nitril d. β -Methyl- β -Hepten- ζ -Carbonsäure. Sd. 202° u. Zers. (*A.* 328, 345 *C.* 1903 [2] 1124).
- 10) Nitril d. $\beta\epsilon$ -Dimethyl- β -Hexen- ζ -Carbonsäure. Sd. $216-217^\circ$ (*A.* 329, 102 *C.* 1903 [2] 1071).
- $C_9H_{16}O$ *21) Aethyläther d. 1-Oxy-2,3,4,5-Tetrahydro-R-Hepten. Sd. 173 bis 175° (*A.* 327, 69 *C.* 1903 [1] 1124).
- *23) 2-Keto-1-Methyl-3-Isopropyl-R-Pentamethylen (Dihydropulegenon). Sd. $184-185^\circ$ (*A.* 327, 135 *C.* 1903 [1] 1412; *A.* 329, 108 *C.* 1903 [2] 1071; *B.* 37, 237 *C.* 1904 [1] 726).
- *27) 2-Keto-1,1,4-Trimethylhexahydrobenzol (Pulenon). Sd. 183° (*A.* 329, 85 *C.* 1903 [2] 1370).
- 28) Pinocamphorylalkohol. Sd. 203° (*B.* 37, 240 *C.* 1904 [1] 726).
- 29) 5-Keto-4-Isopropyl-1-Methyl-R-Pentamethylen. Sd. $180-181^\circ$ (*C.* 1904 [2] 1045).
- $C_9H_{16}O_2$ *1) 2-Oxy-4-Acetyl-1-Methylhexahydrobenzol. Sm. $58-59^\circ$; Sd. 144 bis 145°_{13} (*B.* 36, 766 *C.* 1903 [1] 836).
- *36) $\beta\delta$ -Diketononan (Caproylacetone). Sd. 100°_{30} . Cu (*Bl.* [3] 27, 1086 *C.* 1903 [1] 225).
- *38) β -Methyl- β -Hepten- ζ -Carbonsäure. Sd. 242° (*A.* 328, 347 *C.* 1903 [2] 1124).
- 54) 1-Oxy-4-Keto-1-Isopropylhexahydrobenzol. Sd. $177-180^\circ_{100}$ (*Soc.* 85, 670 *C.* 1904 [2] 331).
- 55) $\gamma\delta$ -Diketononan. Sd. $77-80^\circ_{10}$ (*Bl.* [3] 31, 1176 *C.* 1904 [2] 1701).

- $C_9H_{16}O_2$ 56) $\gamma\epsilon$ -Diketo- β -Methyloktan (Butyrylisobutyrylmethan). Sd. $89-90^\circ_{20}$. Cu (Bl. [3] 27, 1094 C. 1903 [1] 226).
- 57) $\beta\epsilon$ -Dimethyl- β -Hexen- ζ -Carbonsäure. Sd. $143-147^\circ_{23}$. Ag (A. 329, 102 C. 1903 [2] 1071).
- 58) Acetat d. 1-Oxy-1-Methylhexahydrobenzol. Sd. 176°_{700} (C. r. 138, 1323 C. 1904 [2] 219).
- $C_9H_{16}O_3$ *4) γ -Keto- β -Methylheptan- ζ -Carbonsäure. Sd. 265° . Ag (A. 327, 142 C. 1903 [1] 1412; B. 37, 238 C. 1904 [1] 726).
- *10) α -Oxydihydrocampholytische Säure. Sd. $180-185^\circ_{25}$ (Am. 32, 289 C. 1904 [2] 1222).
- *22) Aethylester d. 2-Oxyhexahydrobenzol-1-Carbonsäure. Sd. 100 bis 103°_{10} (B. 37, 1278 C. 1904 [1] 1335).
- *54) Methylester d. β -Ketoheptan- α -Carbonsäure. Sd. 118°_{19} (Bl. [3] 27, 1092 C. 1903 [1] 226).
- *55) Aethylester d. δ -Oxy- β -Hexen- ϵ -Carbonsäure. Sd. $110-112^\circ_{15}$ (C. 1903 [2] 556).
- *57) Aethylester d. ϵ -Keto- β -Methylpentan- ϵ -Carbonsäure. Sd. $93-94^\circ_{12}$ (Bl. [3] 31, 1152 C. 1904 [2] 1707).
- 62) 5-Oxy-1,3-Dimethylhexahydrobenzol-2-Carbonsäure. Fl. (D.R.P. 148207 C. 1904 [1] 486).
- 63) cis-2-Oxy-1,1,2-Trimethyl-R-Pentamethylen-5-Carbonsäure. Fl. (Soc. 85, 144 C. 1904 [1] 728).
- 64) β -Oxy- α -Heptenmethyläther- α -Carbonsäure. Sm. $54,5^\circ$ (C. r. 138, 287 C. 1904 [1] 719).
- 65) ζ -Keto- β -Methylheptan- γ -Carbonsäure. Sd. 156°_{14} (B. 37, 239 C. 1904 [1] 726).
- 66) Isocampholaktonsäure. Ag (Am. 32, 290 C. 1904 [2] 1222).
- 67) Säure (aus Dihydropulegonen). Sd. $154-155^\circ_{15}$ (A. 327, 139 C. 1903 [1] 1412).
- 68) Methylester d. β -Keto- γ -Aethylpentan- γ -Carbonsäure (M. d. Diäthylacetessigsäure). Sd. $206-207^\circ_{750}$ (C. 1903 [1] 225; Bl. [3] 29, 954 C. 1903 [2] 1111).
- 69) Isobutylester d. α -Ketobutan- α -Carbonsäure. Sd. $87-88^\circ_{11}$ (Bl. [3] 31, 1150 C. 1904 [2] 1706).
- 70) Capronat d. α -Oxy- β -Ketopropan. Sd. $107-108^\circ_{10}$ (C. r. 138, 1275 C. 1904 [2] 93).
- $C_9H_{16}O_4$ *24) Diäthylester d. Propan- $\alpha\alpha$ -Dicarbonsäure (C. r. 137, 714 C. 1903 [2] 1423).
- 62) α -Cyklogeraniolenozonid. Sd. $80-100^\circ_{10}$ (B. 37, 849 C. 1904 [1] 1145).
- 63) β -Methylhexan- $\beta\epsilon$ -Dicarbonsäure. Sm. $114-115^\circ$. Ag₂ (A. 329, 92 C. 1903 [2] 1071).
- 64) γ -Methylhexan- $\alpha\delta$ -Dicarbonsäure. Sm. $97-98^\circ$ (C. r. 138, 211 C. 1904 [1] 663).
- 65) 3,5-Dioxyhexahydrobenzoldimethyläther-1-Carbonsäure. Fl. (D.R.P. 81443). — II, 1023.
- 66) Monomethylester d. $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 63° . Ag (Soc. 85, 554 C. 1904 [1] 1485).
- 67) Monoäthylester d. β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Sd. $164-166^\circ$ (C. 1903 [2] 288).
- 68) Aethylester d. α -Acetoxyl- β -Methylpropan- β -Carbonsäure. Sd. 202°_{750} (Bl. [3] 31, 125 C. 1904 [1] 644).
- 69) Isobutylester d. 1- α -Acetoxylpropionsäure. Sd. $90-91^\circ_{12}$ (C. 1903 [2] 1419).
- 70) Diacetat d. $\beta\delta$ -Dioxyptentan. Sd. $200-210^\circ$ u. Zers. (C. 1904 [1] 1327).
- $C_9H_{16}O_5$ *3) γ -Oxy- $\beta\delta$ -Dimethylpentan- $\beta\delta$ -Dicarbonsäure (Bl. [3] 31, 118 C. 1904 [1] 643).
- *9) Diäthylester d. β -Oxypropan- $\alpha\gamma$ -Dicarbonsäure. Sd. $156-157^\circ_{23}$ (Bl. [3] 29, 1014 C. 1903 [2] 1315).
- 19) δ -Oxyheptan- $\alpha\gamma$ -Dicarbonsäure. Sm. $104-105^\circ$. Ba + 4 H₂O (B. 37, 3820 C. 1904 [2] 1606).
- 20) α -Oxy- β -Isopropylbutan- $\alpha\delta$ -Dicarbonsäure. Fl. (B. 36, 1751 C. 1903 [2] 117).

- $C_9H_{16}O_6$ 21) α -Aethylester d. β -Oxy- β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Ag (B. 36, 953 C. 1903 [1] 1017).
- $C_9H_{16}O_8$ 8) $\beta\zeta$ -Dimethylheptan- $\beta\gamma$ - $\epsilon\zeta$ -Diozonid. Fl. (B. 37, 847 C. 1904 [1] 1145).
- 9) Lakton d. Glykontrimethyläthersäure. Sd. 160^{0}_{11} (Soc. 83, 1040 C. 1903 [2] 347, 659).
- $C_9H_{16}N_2$ 13) 1-Methyl-4[oder 5]-Amylimidazol. Sd. $158-160^{0}_{10}$. (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (Soc. 83, 444 C. 1903 [1] 930, 1143).
- $C_9H_{17}N$ 25) r- α -Amidocampholen. Sd. $184-185^{0}$ (C. r. 138, 696 C. 1904 [1] 1087).
- 26) β -Aethylehinuchidin. Sd. $190-192^{0}$. HCl, (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (B. 37, 3245 C. 1904 [2] 996).
- $C_9H_{18}O$ *2) ζ -Oxy- $\beta\zeta$ -Dimethyl- β -Hepten. Sd. $73-75^{0}_{10,5}$ (B. 37, 845 C. 1904 [1] 1145).
- *4) δ -Oxy- $\delta\epsilon\epsilon$ -Trimethyl- α -Hexen (C. 1903 [2] 1415).
- *17) β -Ketononan. Sd. $194,5-195,5^{0}_{788}$ (Soc. 81, 1588 C. 1903 [1] 29, 162; B. 36, 2547 C. 1903 [2] 654).
- *24) Oxyd (aus $\alpha\gamma$ -Dioxy- $\beta\beta\epsilon$ -Trimethylhexan). Sd. $139-140^{0}$ (M. 24, 530 C. 1903 [2] 869).
- *27) δ -Oxy- δ -Methyl- α -Okten (C. 1903 [2] 1415).
- *34) 2-Oxy-1-Methyl-3-Isopropyl-R-Pentamethylen. Sd. $185-192^{0}$ (B. 37, 236 C. 1904 [1] 726).
- *35) 2-Oxy-1,1,4-Trimethylhexahydrobenzol (Pulenol). Sd. $187-189^{0}$ (A. 329, 87 C. 1903 [2] 1071).
- *36) Dihydropulegenol. Sd. $77-78^{0}_{15}$ (A. 327, 135 C. 1903 [1] 1412).
- 39) δ -Oxy- $\delta\zeta$ -Dimethyl- α -Hepten. Sd. 173^{0}_{765} (C. 1904 [2] 185).
- 40) α -Oxyisopropylhexahydrobenzol. Sd. 96^{0}_{20} (C. r. 139, 345 C. 1904 [2] 704).
- 41) 1-Oxy-1-Propylhexahydrobenzol. Sd. 180^{0}_{700} u. Zers. (C. r. 138, 1321 C. 1904 [2] 219).
- 42) Methyläther d. β -Oxy- α -Okten. Sd. $166-168^{0}$ (C. r. 138, 287 C. 1904 [1] 719; Bl. [3] 31, 524 C. 1904 [1] 1552).
- 43) Aethyläther d. β -Oxy- α -Hepten. Sd. $161-161,5$ (C. r. 138, 287 C. 1904 [1] 719; Bl. [3] 31, 523 C. 1904 [1] 1551).
- 44) δ -Ketononan. Sd. $75-76^{0}_{10}$ (Bl. [3] 31, 1158 C. 1904 [2] 1708).
- 45) β -Keto- δ -Methyloktan. Sd. 184^{0}_{769} (Soc. 81, 1595 C. 1903 [1] 15, 132).
- 46) Aldehyd d. Oktan- β -Carbonsäure. Sd. 92^{0}_{28} (C. r. 138, 92 C. 1904 [1] 505).
- $C_9H_{18}O_2$ *3) Pelargonsäure. Sm. $9-11,5^{0}$; Sd. $251-254^{0}$. Ca + H₂O (Bl. [3] 29, 664 C. 1903 [2] 487; G. 34 [2] 54 C. 1904 [2] 693).
- *4) Oktan- β -Carbonsäure. Sd. 136^{0}_{17} (Bl. [3] 31, 748 C. 1904 [2] 303).
- *9) Methyl ester d. Caprylsäure. Sd. 95^{0}_{25} (Bl. [3] 29, 1120 C. 1904 [1] 259).
- 50) 5-Oxy-2-Oxymethyl-1,3-Dimethylhexahydrobenzol. Sd. $159-161^{0}_{14}$ (D. R. P. 148207 C. 1904 [1] 486).
- 51) Aethyläther d. ζ -Oxy- ϵ -Keto- β -Methylhexan. Sd. $92-93^{0}_{18}$ (C. r. 138, 91 C. 1904 [1] 505).
- 52) Oxyd (aus d. Glycerin d. Methylallylnormalbutylcarbinol). Sd. 230 bis 232^{0}_{743} (C. 1904 [2] 185).
- 53) Isoheptylester d. Essigsäure (Acetat d. ζ -Oxy- β -Methylhexan). Sd. 183 bis 185^{0}_{748} (C. r. 136, 1261 C. 1903 [2] 106).
- $C_9H_{18}O_8$ 41) Triäthyläther d. $\alpha\gamma\gamma$ -Trioxypropan. Sd. $190-193^{0}$ u. Zers. (B. 36, 3668 C. 1903 [2] 1312).
- 42) α -Oxyoktan- α -Carbonsäure. Sm. 70^{0} (C. r. 138, 698 C. 1904 [1] 1066).
- 43) γ -Oxybutteramyläthersäure. Sd. 148^{0}_{15} (C. r. 136, 96 C. 1903 [1] 455).
- 44) Aethylester d. α -Oxy- β -Methylpropanäthyläther- β -Carbonsäure. Sd. 75^{0}_{22} (Bl. [3] 31, 128 C. 1904 [1] 644).
- $C_9H_{18}O_8$ 5) Trimethyläther d. Glykose. Sd. 194^{0}_9 (Soc. 83, 1039 C. 1903 [2] 347, 659).
- $C_9H_{18}Br_2$ 4) $\beta\zeta$ -Dibrom- $\beta\zeta$ -Dimethylheptan. Sm. 35^{0} (B. 37, 846 C. 1904 [1] 1145).

- $C_9H_{19}N$ 30) *ε*-Methylamido-*βε*-Dimethyl-*β*-Hexen. Sd. 167—168° (2HCl, PtCl₄) (B. 36, 3369 C. 1903 [2] 1187).
- $C_9H_{20}O$ 31) *r-α*-Dihydrocamphenolamin. Sm. 190°. Pikrat (C. r. 136, 1143 C. 1903 [1] 1410).
- *1) *α*-Oxynonan. Sd. 215° (C. r. 138, 149 C. 1904 [1] 577; Bl. [3] 31, 674 C. 1904 [2] 184).
- *3) *δ*-Oxy-*δ*-Aethylheptan (C. 1903 [2] 1415).
- *7) Methyläther d. *α*-Oxyoktan. Sd. 75°₂₀ (C. r. 136, 1677 C. 1903 [2] 419; Bl. [3] 31, 673 C. 1904 [2] 184).
- *12) *β*-Oxynonan. Sd. 195—196° (193—194°) (Soc. 81, 1592 C. 1903 [1] 29, 162; B. 36, 2548 C. 1903 [2] 654).
- 16) *α*-Oxy-*β*-Methyloktan. Sd. 98—99°₁₆ (Bl. [3] 31, 748 C. 1904 [2] 303).
- 17) *ε*-Oxy-*βε*-Dimethylheptan. Sd. 175° (C. 1904 [1] 1496).
- 18) Butyläther d. *α*-Oxypentan (Butylamyläther). Sd. 157°₇₅₈ (C. r. 138, 1610 Anm. C. 1904 [2] 429).
- $C_9H_{20}O_2$ 7) *αα*-Dioxynonan. Sm. 45,5°; Sd. 177°₁₅ (M. 25, 1085 C. 1904 [2] 1698).
- 8) *α*-Aethyläther d. *αβ*-Dioxy-*β*-Aethylpentan. Sd. 180—184° (C. r. 138, 92 C. 1904 [1] 505).
- $C_9H_{20}O_3$ 11) *δζγ*-Trioxy-*βδ*-Dimethylheptan. Fl. (C. 1904 [2] 185).
- 12) Aldehyd d. *α*-Oxy-*α*-[2-Furanyl]-*β*-Methylpropan-*β*-Carbonsäure (M. 22, 311). — *III, 520.
- $C_9H_{21}N$ *6) Tripropylamin. (2HCl, PtCl₄) (C. 1904 [1] 923).
- *10) *β*-Amidononan. Sd. 69—69,5°₁₁. (2HCl, PtCl₄), Pikrat (B. 36, 2555 C. 1903 [2] 655).
- $C_9H_{21}N_3$ *1) 1, 3, 5-Triäthylhexahydro-1, 3, 5-Triazin (R-Trimethylen-triäthyl-tri-amin). Sd. 196—198° (200—210°). HBr, HJ, Pikrat, Dipikrat (A. 334, 217 C. 1904 [2] 899; D.R.P. 139394 C. 1903 [1] 678).
- *2) isom. 1, 3, 5-Triäthylhexahydro-1, 3, 5-Triazin. (2HCl, PtCl₄), HBr, HJ, (HJ + CHJ₃), Pikrat (A. 334, 220 C. 1904 [2] 899).
- $C_9H_{22}N_2$ *2) Di[äthylamido]methan. Sd. 168° (B. 37, 4088 C. 1904 [2] 1724).
- $C_9H_{22}Sn$ 1) Zinnmethyläthylidipropyl. Sd. 183—184°₇₅₈ (C. 1904 [1] 353).
- 2) Zinntriäthylpropyl. Sd. 195°₇₈₄ (C. 1904 [1] 353).
- 9 III —
- $C_9H_7OCl_4$ 2) 1, 1, 3, 3-Tetrachlor-2-Keto-2, 3-Dihydroinden. Sm. 98° (A. 334, 356 C. 1904 [2] 1054).
- $C_9H_7O_2Cl_2$ 2) 6, 8-Dichlor-4-Oxy-1, 2-Benzpyron. Sm. 284° u. Zers. (B. 35, 464 C. 1903 [1] 636).
- $C_9H_7NBr_3$ 17) 2, 8, 9-Tribromochinolin. Sm. 165° (J. pr. [2] 68, 102 C. 1903 [2] 445).
- C_9H_7OCl *1) Chlorid d. Phenylpropionsäure. Sd. 119°₁₂ (Soc. 85, 1324 C. 1904 [2] 1645).
- $C_9H_7O_2Cl_3$ 4) *β*-Chlor-*β*-[2, 4-Dichlorphenyl]akrylsäure. Sm. 173° (B. 37, 220, 224 C. 1904 [1] 588).
- $C_9H_5O_2Br_5$ 2) Acetat d. 3, 4, 5, 6-Tetrabrom-2-Oxy-1-Brommethylbenzol. Sm. 156° (A. 332, 178 Anm. C. 1904 [2] 209).
- $C_9H_5O_2Cl_3$ 3) *α*, 2-Lakton d. *βββ*-Trichlor-*α*-Oxy-*α*-[4-Oxyphenyl]äthan-2-Carbonsäure. Sm. 197—198° (A. 296, 344). — *II, 1036.
- $C_9H_5O_4N$ 12) Lakton d. 1-[*β*-Nitro-*α*-Oxyäthenyl]benzol-2-Carbonsäure (Nitro-methylenphthalid). Sm. 206—208° (B. 36, 571 C. 1903 [1] 710).
- $C_9H_5O_6N_3$ 3) 5-Keto-3-[3, 5-Dinitrophenyl]-4, 5-Dihydroisoxazol. Sm. 173—175° u. Zers. (J. pr. [2] 69, 463 C. 1904 [2] 595).
- $C_9H_5NCl_2$ 12) 1, 6 oder 1, 7-Dichlorisochinolin. Sm. 95,5—96° (B. 37, 1977 C. 1904 [2] 236).
- $C_9H_5O_2N_2$ *9) Nitril d. *α*-Oximidobenzoylessigsäure. Sm. 120—121° (B. 37, 3468 C. 1904 [2] 1305).
- $C_9H_5O_2N_4$ C 53,5 — H 3,0 — O 15,8 — N 27,7 — M. G. 202.
- 1) Nitril d. *α*-Oximido-*β*-Nitrosimido-*α*-Phenylpropionsäure. NH₄ (B. 37, 3468 C. 1904 [2] 1305).
- $C_9H_5O_2Cl_4$ 3) Acetat d. 2, 3, 5, 6-Tetrachlor-4-Oxy-1-Methylbenzol. Sm. 112° (A. 328, 252 C. 1903 [2] 1245).
- $C_9H_5O_3Br_4$ *1) Acetat d. 2, 4, 5, 6-Tetrabrom-3-Oxy-1-Methylbenzol. Sm. 165° (A. 333, 356 C. 1904 [2] 1116).
- $C_9H_5O_8N_2$ *6) 6-Nitro-2-Oxychinolin. Sm. 277° (M. 24, 100 C. 1903 [1] 922).

- $C_6H_5O_3N_2$ 26) 6-Diazo-1,2-Benzpyron. Sulfat (*Soc.* 85, 1235 *C.* 1904 [2] 1124).
- $C_6H_5O_3Cl_4$ *1) 1-Acetat d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol. Sm. 170° (*A.* 328, 296 *C.* 1903 [2] 1248).
- 2) Acetat d. 2,3,5,6-Tetrachlor-1-Oxy-4-Keto-1-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 135° (*A.* 328, 302 *C.* 1903 [2] 1248).
- $C_6H_5O_4N_2$ *8) 2,4,6-Triketo-5-Furalhexahydro-1,3-Diazin (*B.* 35, 4443 *C.* 1903 [1] 423).
- 10) 3-Nitroindol-2-Carbonsäure. Sm. 230° u. Zers. (*G.* 34 [2] 65 *C.* 1904 [2] 710).
- $C_6H_5O_4Br_2$ 2) 3,5-Dibrom-2-Acetoxybenzol-1-Carbonsäure. Sm. 156° (*Soc.* 81, 1481 *C.* 1903 [1] 23, 144).
- 3) 3,5-Dibrom-4-Acetoxybenzol-1-Carbonsäure. Sm. 207° (*Soc.* 81, 1483 *C.* 1903 [1] 23, 144).
- C_6H_5NJ *5) 6-Jodchinolin. Sm. 91° (*A.* 332, 80 *C.* 1904 [2] 43).
- $C_6H_5N_3Cl$ 1) 3-Chlor-5-Phenyl-1,2,4-Triazin. Sm. 122—123° (*B.* 36, 4127 *C.* 1904 [1] 295).
- $C_6H_5Cl_2Br_2$ 1) $\gamma\gamma$ -Dichlor- $\alpha\beta$ -Dibrompropen. Sm. 107° (*C. r.* 137, 127 *C.* 1903 [2] 570).
- C_6H_7ON *2) 5-Phenylisoxazol. Sm. 18—22°; Sd. 254—256° (*B.* 36, 3671 *C.* 1903 [2] 1313; *C. r.* 138, 1341 *C.* 1904 [2] 187).
- 24) γ -Oximido- α -Phenylpropin. Sm. 108° (*B.* 36, 3671 *C.* 1903 [2] 1313).
- 25) Verbindung (aus Tryptophan). Sm. 195° (*C.* 1903 [2] 1012).
- $C_6H_7ON_3$ *4) Nitril d. Phenylhydrazoncyanessigsäure. Sm. 168° (*B.* 36, 3666 *C.* 1903 [2] 1312).
- 6) Acetophenonazocyanid. Sm. 72° K (*A.* 325, 149 *C.* 1903 [1] 644).
- 7) 3-Oxy-5-Phenyl-1,2,4-Triazin. Sm. 234° (*A.* 325, 152 *C.* 1903 [1] 644).
- C_6H_7OCl 5) Methyläther d. 4-Oxyphenyläthin. Sd. 133—138°₃₀ (*B.* 36, 916 *C.* 1903 [1] 970).
- $C_6H_7OCl_3$ 1) Aldehyd d. $\alpha\alpha\beta$ -Trichlor- β -Phenylpropionsäure. Fl. (*C. r.* 136, 1073 *C.* 1903 [1] 1345).
- $C_6H_7OCl_5$ 1) Propyläther d. Pentachloroxybenzol. Sm. 49—50° (*B.* 37, 4019 *C.* 1904 [2] 1717).
- $C_6H_7O_2N$ *19) 6-Amido-1,2-Benzpyron. Sm. 163—164° (*Soc.* 85, 1230 *C.* 1904 [2] 1123).
- *38) Nitril d. 4-Acetoxybenzol-1-Carbonsäure. Sm. 57° (*B.* 36, 3974 *C.* 1904 [1] 163).
- 45) 2-Nitroinden. Sm. 141° u. Zers. (*B.* 28, 1333; *A.* 336, 3 *C.* 1904 [2] 1465). — *II, 92.
- 46) 6[oder 7]-Oxy-1-Keto-1,2-Dihydroisochinolin. Sm. 270° (*B.* 37, 1976 *C.* 1904 [2] 236).
- 47) Phenyleyanessigsäure. Sm. 92° (*Am.* 32, 127 *C.* 1904 [2] 954).
- 48) Methylimid d. Benzol-1,2-Dicarbonsäure. Sm. 133—134° (*B.* 37, 1945 *C.* 1904 [2] 123).
- 49) Verbindung (aus α -Oxamido- β -Phenylpropionsäure). Sm. 148—150° (*B.* 36, 4310 *C.* 1904 [1] 448).
- $C_6H_7O_2N_3$ 25) Nitril d. α -Nitro- β -Phenylimidopropionsäure. Sm. 215—216° (*Am.* 29, 270 *C.* 1903 [1] 958).
- 26) 3-Cyanphenylamid d. Oxaminsäure. Sm. 246° (*C.* 1904 [2] 102).
- $C_6H_7O_2Cl_3$ 6) $\alpha\alpha\beta$ -Trichlor- β -Phenylpropionsäure. Sm. 112° (*C. r.* 136, 1073 *C.* 1903 [1] 1345).
- 7) Acetat d. 2,3,5-Trichlor-4-Oxy-1-Methylbenzol. Sm. 37—38° (*A.* 328, 281 *C.* 1903 [2] 1245).
- $C_6H_7O_2Br$ *3) Allo- α -Brom- β -Phenylpropionsäure (*Soc.* 83, 673 *C.* 1903 [2] 115; *C.* 1904 [2] 439).
- *4) β -Brom- β -Phenylakrylsäure (*Soc.* 83, 1156 *C.* 1903 [2] 1369).
- *5) Allo- β -Brom- β -Phenylakrylsäure. Sm. 159° (*B.* 36, 902 *C.* 1903 [1] 1133; *Soc.* 83, 1156 *C.* 1903 [2] 1369; *C.* 1904 [2] 439).
- *8) β -[4-Bromphenyl]akrylsäure (*B.* 37, 223 *C.* 1904 [1] 588).
- $C_6H_7O_3N$ 25) 2-Oxy-1,4-Diketo-1,2,3,4-Tetrahydroisochinolin (*B.* 36, 578 *C.* 1903 [1] 711).
- 26) 6[oder 7]-Oxy-1,4-Diketo-1,2,3,4-Tetrahydroisochinolin. Sm. noch nicht bei 300° (*B.* 37, 1975 *C.* 1904 [2] 236).

- $C_6H_7O_3N$ 27) β -[3-Nitrosophenyl]akrylsäure. Zers. bei 230° (*B.* 37, 335 *C.* 1904 [1] 658; *Am.* 32, 396 *C.* 1904 [2] 1498).
- 28) β -[4-Nitrosophenyl]akrylsäure. Zers. oberh. 220° (*Am.* 32, 393 *C.* 1904 [2] 1498).
- $C_6H_7O_5N_3$ *13) 5-Oxy-1-Phenyl-1,2,4-Triazol-3-Carbonsäure. Sm. $179-180^\circ$ (*B.* 36, 1101 *C.* 1903 [1] 1140).
- 18) 5-Nitro-2-Acetyldiazol. Sm. $158-159^\circ$ (*B.* 37, 2585 *C.* 1904 [2] 659).
- 19) 7-Nitro-2-Acetyldiazol. Sm. $131-132^\circ$ (*B.* 37, 2576 *C.* 1904 [2] 658).
- 20) 5-Oxy-1-Phenyl-1,2,3-Triazol-4-Carbonsäure + H_2O . Sm. $82-83^\circ$ K, K_2 + $2H_2O$ (*B.* 35, 4052 *C.* 1903 [1] 170).
- 21) 5-Keto-1-Phenyl-4,5-Dihydro-1,2,3-Triazol-4-Carbonsäure. Sm. $111-112^\circ$ u. Zers. (*B.* 35, 4051 *C.* 1903 [1] 170).
- 22) 2-Phenyl-1,2,3,6-Oxtriazin-5-Carbonsäure. Sm. 155° u. Zers. *Ag* (*Soc.* 83, 1248 *C.* 1903 [2] 1421).
- 23) Nitril d. 3-Nitrobenzoylamidoessigsäure. Sm. 118° (*B.* 36, 1647 *C.* 1903 [2] 32).
- 24) Nitril d. 4-Nitrobenzoylamidoessigsäure. Sm. 145° (*B.* 36, 1647 *C.* 1903 [2] 32).
- $C_6H_7O_5Cl_3$ 1) Acetat d. 2,3,5-Trichlor-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. $85-86^\circ$ (*A.* 328, 300 *C.* 1903 [2] 1248).
- $C_6H_7O_4N$ *4) β -[4-Nitrophenyl]akrylsäure. + H_2SO_4 (*R.* 21, 352 *C.* 1903 [1] 150; *Am.* 32, 392 *C.* 1904 [2] 1498).
- *20) 3,4-Methylenäther d. β -Nitro- α -[3,4-Dioxyphenyl]äthen. *Na* (*Bl.* [3] 29, 525 *C.* 1903 [2] 244).
- 21) Methylester d. 1-Oxybenzoxazol-4-Carbonsäure. Sm. $196,5^\circ$ (*A.* 325, 324 *C.* 1903 [1] 770).
- $C_6H_7O_5N_3$ *2) 3,5-Dinitro-2-Methylindol. Zers. bei 260° (*C.* 1903 [2] 121; *G.* 34 [2] 64 *C.* 1904 [2] 710).
- $C_6H_7O_4Cl_3$ 1) Acetat d. 3,5,6-Trichlor-1,2-Dioxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 161° u. Zers. (*A.* 328, 306 *C.* 1903 [2] 1248).
- $C_6H_7O_4Br$ 7) 5-Brom-2-Acetoxybenzol-1-Carbonsäure. Sm. 168° (*Soc.* 81, 1482 *C.* 1903 [1] 23, 144).
- 8) 3-Brom-4-Acetoxybenzol-1-Carbonsäure. Sm. 155° (*Soc.* 81, 1483 *C.* 1903 [1] 23, 144).
- $C_6H_7O_5N$ *2) 2-Oxalylamidobenzol-1-Carbonsäure + H_2O . Sm. 210° u. Zers. *Ag* (*A.* 332, 242 *C.* 1904 [2] 39).
- 22) 2-Nitrobenzoylessigsäure. Sm. $117-120^\circ$ u. Zers. (*Soc.* 85, 154 *C.* 1904 [1] 725).
- 23) Nitromethylphenylketon-2-Carbonsäure. Sm. $121,5^\circ$. Ag_2 (*B.* 36, 575 *C.* 1903 [1] 710).
- 24) 2,3-Methylenätherester d. 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 143° (*A.* 330, 96 *C.* 1904 [1] 1076).
- 25) 3,4-Methylenätherester d. 6-Nitro-3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 96° (*A.* 330, 100 *C.* 1904 [1] 1076).
- 26) 1-Methylester d. 3-Nitrobenzol-1-Carbonsäure-2-Carbonsäurealdehyd. Sm. $145-146^\circ$ (*M.* 24, 830 *C.* 1904 [1] 373).
- 27) 2-Methylester d. 4-Nitrobenzol-1-Carbonsäurealdehyd-2-Carbonsäure. Sm. $85-86^\circ$ (*M.* 24, 825 *C.* 1904 [1] 372).
- 28) Pseudomethylester d. 3-Nitrobenzol-1-Carbonsäure-2-Carbonsäurealdehyd. Sm. $106-108^\circ$ (*M.* 24, 829 *C.* 1904 [1] 373).
- 29) Pseudomethylester d. 4-Nitrobenzol-1-Carbonsäurealdehyd-2-Carbonsäure. Sm. $101-103^\circ$ (*M.* 24, 823 *C.* 1904 [1] 372).
- $C_6H_7O_5N_5$ C 40,8 — H 2,6 — O 30,2 — N 26,4 — M. G. 265.
- 1) 4-Methyluraciliminoalloxan (*Am.* 31, 671 *C.* 1904 [2] 317).
- $C_6H_7O_5N$ *12) 1-Methylester d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 157° (*B.* 35, 3861 *C.* 1903 [1] 154).
- *13) 2-Methylester d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 144° (*B.* 35, 3861 *C.* 1903 [1] 154).
- *14) 1-Methylester d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 129° (*M.* 24, 828 *C.* 1904 [1] 373).
- 17) 1,3-Methylbetain d. Pyridin-2,3,4-Tricarbonsäure + H_2O (*M.* 24, 712 *C.* 1904 [1] 218).

- $C_6H_7O_6N$ 18) 2-Methylester d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 140—142° (*M.* 24, 827 *C.* 1904 [1] 373).
- $C_6H_7O_6N_5$ 3) 5-Methylpurpursäure (*Am.* 31, 678 *C.* 1904 [2] 318).
4) 7-Methylpurpursäure. $NH_4 + H_2O$ (*Am.* 31, 674 *C.* 1904 [2] 317).
5) Purpurmethylläthersäure (*Am.* 31, 679 *C.* 1904 [2] 318).
- $C_6H_7O_7N$ 3) p-Nitro-2-Acetoxy-4-Oxybenzol-1-Carbonsäure. Sm. 150° (*M.* 25, 39 *C.* 1904 [1] 723).
- $C_6H_7O_7N_5$ C 36,4 — H 2,4 — O 37,6 — N 23,6 — M. G. 297.
1) Nitrodicyandicholnitrosäure. K_2 (*Am.* 29, 118 *C.* 1903 [1] 709).
- $C_6H_7O_8N_2$ 2) 4,6-Dinitrophenylamidoessigsäure-2-Carbonsäure. Sm. 186—187°.
 $Ba + 2H_2O$, Ag (*G.* 33 [2] 333 *C.* 1904 [1] 278).
- $C_6H_7N_3S$ 1) 3-Thiocarbonyl-5-Phenyl-3,4-Dihydro-1,2,4-Triazin. Sm. 200° (*B.* 36, 4128 *C.* 1904 [1] 295).
- $C_6H_7Cl_2Br$ 1) $\gamma\gamma$ -Dichlor- β -Brom- α -Phenylpropen. Sm. 55°; Sd. 167—168°₃₅ (*C. r.* 136, 1074 *C.* 1903 [1] 1345).
- $C_6H_8ON_2$ *23) 4-Oxy-2-Methyl-1,3-Benzodiazin. Sm. 239° (*C.* 1903 [1] 174).
*37) Nitril d. 2-Acetylamidobenzol-1-Carbonsäure. Sm. 132,5° (*C.* 1903 [1] 174).
*46) Nitril d. Benzoylamidoessigsäure. Sm. 144° (*B.* 36, 1646 *C.* 1903 [2] 32).
49) 4-Amido-3-Phenylisoxazol. Sd. 179°₁₂ (*A.* 328, 246 *C.* 1903 [2] 1000).
50) Nitril d. 3-Acetylamidobenzol-1-Carbonsäure. Sm. 130,5—131° (*C.* 1904 [2] 101).
51) Nitril d. 4-Acetylamidobenzol-1-Carbonsäure. Sm. 200° (*C.* 1903 [2] 113).
52) Amid d. Phenylecanessigsäure. Sm. 147° (*Am.* 32, 122 *C.* 1904 [2] 953).
53) Verbindung (aus 5-Oxy-4-Methyl-1-Phenyl-1,2,3-Triazol). Zers. bei 163 bis 164° (*A.* 335, 101 *C.* 1904 [2] 1232).
- $C_6H_8OBr_2$ 5) $\alpha\beta$ -Dibromäthylphenylketon. Sm. 53—54° (*B.* 36, 1355 *C.* 1903 [1] 1299).
- $C_6H_8OBr_4$ 3) Pseudotetrabrompropylphenol. Sm. 112—113° (*B.* 37, 1558 *C.* 1904 [1] 1438).
- $C_6H_8O_2N_2$ *3) 2,5-Diketo-1-Phenyltetrahydroimidazol. Sm. 197° u. Zers. (*Am.* 28, 395 *C.* 1903 [1] 90).
*13) 1,3-Dioximido-2,3-Dihydroinden. Sm. 225° u. Zers. (*G.* 33 [2] 153 *C.* 1903 [2] 1272).
*34) 3-Nitro-2-Methylindol. Sm. 248° u. Zers. Na (*C.* 1903 [2] 121; *G.* 34 [2] 61 *C.* 1904 [2] 710).
*37) 2-Cyanmethylenamidobenzol-1-Carbonsäure. Sm. 182—184° u. Zers. (*D.R.P.* 142559 *C.* 1903 [2] 81; *B.* 37, 4082 *C.* 1904 [2] 1723).
40) 6-Hydrazido-1,2-Benzpyron. Sm. 165—167° (*Soc.* 85, 1236 *C.* 1904 [2] 1124).
41) Aldehyd d. α -Phenylazo- β -Oxyakrylsäure. Sm. 116° (*B.* 36, 3668 *C.* 1903 [2] 1312).
- $C_6H_8O_2N_4$ 11) 5-Amido-1-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 142°. K (*B.* 35, 4059 *C.* 1903 [1] 171).
- $C_6H_8O_2Cl_2$ 13) Dichlormethylenäther d. 3,4-Dioxy-1-Aethylbenzol. Sd. 133—135°₂₀ (*C. r.* 138, 1702 *C.* 1904 [2] 436).
14) 1-[$\beta\beta$ -Dichloräthyl]benzol-4-Carbonsäure. Sm. 179—181° (*B.* 36, 3905 *C.* 1903 [2] 1438).
15) Acetat d. 3,5-Dichlor-4-Oxy-1-Methylbenzol. Sm. 48° (*A.* 328, 278 *C.* 1903 [2] 1245).
- $C_6H_8O_2Cl_4$ *2) 1-Aethyläther d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol. Sm. 128° (*A.* 328, 296 *C.* 1903 [2] 1248).
- $C_6H_8O_2Br_2$ *4) i- $\alpha\beta$ -Dibrom- β -Phenylpropionsäure (*Soc.* 83, 669 *C.* 1903 [2] 115).
21) Methylenäther d. 3,4-Dioxy-1-[$\alpha\beta$ -Dibromäthyl]benzol. Sm. 160° (*G.* 34 [1] 369 *C.* 1904 [2] 214).
- $C_6H_8O_2S$ *1) α -Merkapto- β -Phenylakrylsäure. Sm. 119° (*M.* 24, 507 *C.* 1903 [2] 836).
- $C_6H_8O_3N_2$ 24) Methylläther d. 5-Oxy-4-Phenyl-1,2,3,6-Dioxdiazin. Sm. 69° (*A.* 328, 254 *C.* 1903 [2] 1001).
25) Benzylidenharnstoff-2-Carbonsäure. Sm. 240° u. Zers. (*B.* 21 [2] 353; *C. r.* 106, 948. — II, 1626; *II, 950).

- $C_9H_8O_3N_2$ 26) Säure (aus d. Verb. $C_{17}H_{15}O_3N_3$). Sm. 256° u. Zers. (C. 1904 [1] 1555).
 27) α -Amid d. α -Imido- α -Phenylessigsäure-2-Carbonsäure (Imidophthalonaminsäure). Sm. 191—193°. NH_4 (M. 25, 392 C. 1904 [2] 324).
- $C_9H_8O_3Cl_2$ 7) Acetat d. 3,5-Dichlor-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 82—84° (A. 328, 299 C. 1903 [2] 1248).
- $C_9H_8O_3Br_2$ 22) Äthylester d. 3,5-Dibrom-4-Oxybenzol-1-Carbonsäure. Sm. 99° (Soc. 81, 1483 C. 1903 [1] 23, 144).
- $C_9H_8O_4N_2$ *5) β -[3-Nitro-4-Amidophenyl]akrylsäure. Sm. 218—224,5° (M. 24, 94 C. 1903 [1] 921).
 *11) Phenylhydrazonmethan- α - α -Dicarbonsäure. Sm. 163—164° (B. 37, 4171 C. 1904 [2] 1703).
 *22) Benzoat d. α -Nitro- α -Oximidoäthan. Sm. 131° (G. 33 [1] 510 C. 1903 [2] 938).
 24) 6-Nitroso-3-Acetylamidobenzol-1-Carbonsäure. Zers. bei 240° (M. 24, 7 C. 1903 [1] 775).
 25) Aldehyd d. 5-Nitro-2-Acetylamidobenzol-1-Carbonsäure. Sm. 160 bis 161° (M. 24, 96 C. 1903 [1] 921).
 26) Aldehyd d. 6-Nitro-3-Acetylamidobenzol-1-Carbonsäure. Sm. 161° (M. 24, 5 C. 1903 [1] 775).
 27) Aldehyd d. 3-Nitro-4-Acetylamidobenzol-1-Carbonsäure. Sm. 155° (M. 24, 90 C. 1903 [1] 921).
- $C_9H_8O_4N_4$ 3) 4,7-Dinitro-5,6-Dimethylindazol. Sm. 221—222° (B. 37, 2596 C. 1904 [2] 660).
 4) 4,6-Dinitro-5,7-Dimethylindazol. Sm. 247° (B. 37, 2594 C. 1904 [2] 660).
- $C_9H_8O_4Cl_2$ 2) Verbindung (aus Benzoessäure u. Dichloressigsäure) (R. 21, 353 C. 1903 [1] 150).
- $C_9H_8O_5N_2$ *4) 5-Nitro-2-Acetylamidobenzol-1-Carbonsäure. Sm. 221° (B. 36, 1801 C. 1903 [2] 283).
 *6) 3-Nitrobenzoylamidoessigsäure. Sm. 165° (B. 36, 1647 C. 1903 [2] 32).
 *7) 4-Nitrobenzoylamidoessigsäure (B. 36, 1648 C. 1903 [2] 32).
 *13) 3-Nitro-4-Acetylamidobenzol-1-Carbonsäure (D.R.P. 151725 C. 1904 [1] 1588).
 21) β -Keto- α -[p-Dinitrophenyl]propan. Sm. 73—75° (Bl. [3] 19, 74). — *III, 115.
 21) Formyl-4-Nitrophenylamidoessigsäure. Sm. 159—160° u. Zers. (D.R.P. 154556 C. 1904 [2] 1012).
 22) 6-Nitro-3-Acetylamidobenzol-1-Carbonsäure. Sm. 225° (M. 24, 8 C. 1903 [1] 775).
- $C_9H_8O_6S$ *3) β -[4-Sulfofenyl]akrylsäure + 3[5]H₂O. Na + 2H₂O, Anilinsalz (C. 1903 [2] 438).
- $C_9H_8O_7N_4$ C 38,0 — H 2,8 — O 39,4 — N 19,7 — M. G. 284.
 1) Dimethylamid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 144° (R. 21, 383 C. 1903 [1] 152).
- $C_9H_8O_8N_4$ *2) Äthylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 147° (Soc. 85, 651 C. 1904 [2] 310).
- $C_9H_8N_2S$ 4) 4-Thiocarbonyl-2-Methyl-4,5-Dihydro-1,3-Benzodiazin. Sm. 218 bis 219° u. Zers. (C. 1903 [1] 1270).
- $C_9H_8N_2S_2$ *2) 2-Thiocarbonyl-5-Methyl-4-Phenyl-2,4-Dihydro-1,3,4-Thiodiazol (2-Methyl-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol-2,5-Sulfid). Sm. 216° (J. pr. [2] 67, 250 C. 1903 [1] 1264).
- C_9H_8ClBr 1) α -Chlor- β -Brom- α -Phenylpropen. Sd. 135—140°₁₁ (B. 36, 771 C. 1903 [1] 834).
- $C_9H_8Cl_2Br_2$ 1) γ -Dichlor- α - β -Dibrom- α -Phenylpropan. Sm. 127° (C. r. 136, 96 C. 1903 [1] 457).
- C_9H_8ON *17) 3-Methyl-2,4-Benzoxazin. HBr, Pikrat (B. 37, 2263 C. 1904 [2] 213).
 *20) Methylphthalimidin. HBr, (HJ, J₂) (B. 36, 156 C. 1903 [1] 444).
 *21) Amid d. β -Phenylakrylsäure. Sm. 147° (M. 22, 428).
 *32) Nitril d. 4-Oxybenzoläthyläther-1-Carbonsäure (B. 36, 652 C. 1903 [1] 768).
 40) γ -Phenylamido- γ -Oxypropin. Sm. 122—123° (B. 36, 3667 C. 1903 [2] 1312).

- C_9H_9ON 41) polym. Anhydroalkohol (aus Methyl-4-Methylenamidophenylketon) (*C.* 1903 [1] 922).
- $C_9H_9ON_3$ 42) Methyl-4-Methylenamidophenylketon. Sm. 170° (*C.* 1903 [1] 922).
 34) 5-Oxy-4-Methyl-1-Phenyl-1,2,3-Triazol. Zers. bei 133—134°. Na + 2H₂O, HCl + H₂O (*B.* 35, 4054 *C.* 1903 [1] 170; *A.* 335, 93 *C.* 1904 [2] 1232).
 35) Nitril d. Methyl-4-Nitrosophenylamidoessigsäure. Sm. 114—116° (*B.* 37, 2637 *C.* 1904 [2] 519).
- C_9H_9OBr 11) α -Brom- β -Keto- α -Phenylpropan. Fl. (*G.* 33 [2] 262 *C.* 1904 [1] 24).
- $C_9H_9OBr_3$ 10) Methyläther d. 2,4,6-Tribrom-5-Oxy-1,3-Dimethylbenzol. Sm. 111° (*R.* 21, 328 *C.* 1903 [1] 78).
- $C_9H_9O_2N$ *8) γ -Oximido- γ -Oxy- α -Phenylpropen. Cu (*G.* 34 [2] 70 *C.* 1904 [2] 733).
 *36) Aldehyd d. 4-Acetylamidobenzol-1-Carbonsäure. Sm. 161° (*C.* 1903 [1] 883; *M.* 24, 89 *C.* 1903 [1] 921).
 *38) Amid d. Benzoylessigsäure. Sm. 114—116° (*C.* 1904 [2] 905).
 *42) Phenylamid d. Brenztraubensäure. Sm. 103—105° (*B.* 35, 4056 *C.* 1903 [1] 171).
 *48) Nitril d. α -Oxy- α -[4-Methoxyphenyl]essigsäure. Sm. 66—67° (*B.* 37, 3173 *C.* 1904 [2] 1303).
 66) Aldehyd d. 3-Acetylamidobenzol-1-Carbonsäure. Sm. 84° (*M.* 24, 3 *C.* 1903 [1] 775).
- $C_9H_9O_2N_3$ *10) 2-Nitro-2,5-Dimethylbenzimidazol. Sm. 210° (*B.* 36, 3972 *C.* 1904 [1] 178).
 *24) 5-Keto-3-Oxy-4-Methyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 223—224° (*B.* 36, 3149 *C.* 1903 [2] 1073; *B.* 37, 2337 *C.* 1904 [2] 315).
 27) Methyläther d. 3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 197° (*B.* 36, 3150 *C.* 1903 [2] 1073).
 28) 3,5-Diketo-1-Phenylhexahydro-1,2,4-Triazin. Sm. 225° (*B.* 36, 3884 *C.* 1904 [1] 27).
 29) 2-Nitro-4,6-Dimethylbenzimidazol. Sm. 268° (*B.* 36, 3973 *C.* 1904 [1] 178).
 30) 4-Nitro-5,6-Dimethylindazol. Sm. 204° (*B.* 37, 2596 *C.* 1904 [2] 660).
 31) 7-Nitro-5,6-Dimethylindazol. Sm. 180,5—181,5° (*B.* 37, 2595 *C.* 1904 [2] 660).
 32) 4[oder 6]-Nitro-5,7-Dimethylindazol. Sm. 180—181° (*B.* 37, 2594 *C.* 1904 [2] 660).
 33) Nitril d. 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 114 bis 115° (*B.* 37, 1030 *C.* 1904 [1] 1207).
 34) Amid d. Acetophenonazocarbonsäure. Sm. 217° u. Zers. (*A.* 325, 151 *C.* 1903 [1] 644).
- $C_9H_9O_2N_5$ 2) Azid d. β -Phenylureidoessigsäure. Sm. 92° u. Zers. (*J. pr.* [2] 70, 248 *C.* 1904 [2] 1463).
- $C_9H_9O_2Cl$ 25) 2-Methylphenylester d. Chloressigsäure. Sd. 147° (i. V.) (*Ar.* 240, 634 *C.* 1903 [1] 24).
 26) 3-Methylphenylester d. Chloressigsäure. Sd. 170° (i. V.) (*Ar.* 240, 635 *C.* 1903 [1] 24).
 27) 4-Methylphenylester d. Chloressigsäure. Sm. 29—30°; Sd. 153 bis 154° (i. V.) (*Ar.* 240, 635 *C.* 1903 [1] 24).
- $C_9H_9O_2Br$ 22) Methylenäther d. 3,4-Dioxy-1-[α -Bromäthyl]benzol. Sm. 107° (*G.* 34 [1] 368 *C.* 1904 [2] 214).
 23) α -Brom- β -Phenylpropionsäure. Fl. (*B.* 37, 3064 *C.* 1904 [2] 1207).
 24) Benzoat d. β -Brom- α -Oxyäthan. Sd. 280—285° u. Zers. (*A.* 332, 209 *C.* 1904 [2] 211).
- $C_9H_9O_3N$ *10) 2-Acetylamidobenzol-1-Carbonsäure. Sm. 186,5°. Ca (*B.* 36, 1800 *C.* 1903 [2] 283).
 *11) 3-Acetylamidobenzol-1-Carbonsäure. Sm. 250° (*B.* 36, 1801 *C.* 1903 [2] 283).
 *12) 4-Acetylamidobenzol-1-Carbonsäure. Sm. 256,5° (*B.* 36, 1801 *C.* 1903 [2] 283; *B.* 36, 4088 *C.* 1904 [1] 269; D.R.P. 151725 *C.* 1904 [1] 1587).
 *33) 2-Amid d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 184° u. Zers. (*M.* 24, 952 *C.* 1904 [1] 916).
 *48) Methylester d. 2-Formylamidobenzol-1-Carbonsäure. Sm. 42—43°; Sd. 169,8—170°₁₃ (*B.* 36, 2476 *C.* 1903 [2] 559).

- $C_9H_9O_3N$ *49) Aethylester d. 2-Nitrosobenzol-1-Carbonsäure. Sm. 120—121° (*B.* 36, 2313 *C.* 1903 [2] 430; *B.* 36, 2701 *C.* 1903 [2] 996).
- 50) 2-Methylformylamidobenzol-1-Carbonsäure. Sm. 167° (168,5—169°) (*D.R.P.* 139393 *C.* 1903 [1] 745; *B.* 36, 1805 *C.* 1903 [2] 284).
- 51) Aethylester d. 3-Nitrosobenzol-1-Carbonsäure. Sm. 52—53° (*Am.* 32, 401 *C.* 1904 [2] 1500).
- 52) Aethylester d. 4-Nitrosobenzol-1-Carbonsäure. Sm. 81° (*Am.* 32, 398 *C.* 1904 [2] 1499).
- 53) Phenylester d. Acetylamidoameisensäure. Sm. 117° (*B.* 36, 3216 *C.* 1903 [2] 1055).
- 54) 1-Amid d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 230° (*M.* 24, 956 *C.* 1904 [1] 916).
- 55) Monamid d. Benzol-1,4-Dicarbonsäuremonomethylester. Sm. 201° (*B.* 37, 3223 *C.* 1904 [2] 1121).
- $C_9H_9O_8N_3$ 18) Monophenyldiamid d. Oximidomalonsäure. Sm. 180—181° u. Zers. (*C.* 1904 [1] 1555).
- $C_9H_9O_8Cl$ *2) Chloracetat d. 1,2-Dioxybenzolmonomethyläther. Sm. 58—60° (*Ar.* 240, 636 *C.* 1903 [1] 24).
- 20) 4-Oxy-*p*-Chlormethyl-1-Methylbenzol-3-Carbonsäure. Sm. 169° (*D.R.P.* 113723). — *II, 931.
- 21) 3-Oxy-*p*-Chlormethyl-1-Methylbenzol-4-Carbonsäure. Sm. 192° (*D.R.P.* 113723). — *II, 931.
- $C_9H_9O_8Br$ 19) Aldehyd d. 6-Brom-3,4-Dioxybenzoldimethyläther-1-Carbonsäure^p Sm. 150° (*B.* 37, 3815 *C.* 1904 [2] 1575).
- 20) Aethylester d. 6-Brom-3-Oxybenzol-1-Carbonsäure. Sm. 94° (*G.* 32 [2] 336 *C.* 1903 [1] 579).
- $C_9H_9O_8Br_3$ 6) Tribrommethylfilleinsäure. Sm. 116° (*A.* 329, 295 *C.* 1904 [1] 797).
- $C_9H_9O_8N$ *6) 2-Carboxylphenylamidoessigsäure (*D.R.P.* 142506 *C.* 1903 [2] 80; *D.R.P.* 142507 *C.* 1903 [2] 81; *D.R.P.* 143902 *C.* 1903 [2] 610; *D.R.P.* 147228 *C.* 1903 [2] 1485; *D.R.P.* 149346 *C.* 1904 [1] 847).
- *38) 2,6-Dimethylpyridin-3,5-Dicarbonsäure. Sm. 315—320° (*J. pr.* [2] 69, 245 *C.* 1904 [1] 1358).
- *49) Dimethylester d. Pyridin-2,6-Dicarbonsäure. Sm. 121° (*M.* 24, 205 *C.* 1903 [2] 48).
- *74) 1,3-Methylbetaïn d. Pyridin-3,4-Dicarbonsäure-4-Methylester. Sm. 218° u. Zers. (*M.* 24, 522 *C.* 1903 [2] 889).
- 81) 2,3-Methylenäther d. 5-Nitro-2-Oxy-3-Oxymethyl-1-Methylbenzol. Sm. 133° (*A.* 330, 94 *C.* 1904 [1] 1076).
- 82) 3,4-Methylenäther d. 6-Nitro-3-Oxy-4-Oxymethyl-1-Methylbenzol. Sm. 137° (*A.* 330, 99 *C.* 1904 [1] 1076).
- 83) 2-Oxyacetylamidobenzol-1-Carbonsäure. Sm. 167° (*D.R.P.* 153576 *C.* 1904 [2] 678).
- 84) 1,4-Methylbetaïn d. Pyridin-3,4-Dicarbonsäure-3-Methylester + H_2O . Sm. 182° u. Zers. (*M.* 24, 523 *C.* 1903 [2] 889).
- 85) Methylamid d. 3,4-Dioxybenzol-1-Ketocarbonsäure (Peradrenalon) (*C.* 1904 [2] 1512).
- $C_9H_9O_4N_3$ 11) Methyläther d. α -Amido- α -[3-Nitrobenzoylimido]- α -Oxymethan. Sm. 115° (*C.* 1904 [1] 1560).
- 12) 5-Nitro-2-Acetylamidobenzaldoxim. Sm. 239° (*M.* 24, 97 *C.* 1903 [1] 921).
- 13) 6-Nitro-3-Acetylamidobenzaldoxim. Sm. 189° (*M.* 24, 6 *C.* 1903 [1] 775).
- 14) 3-Nitro-4-Acetylamidobenzaldoxim. Sm. 206° (*M.* 24, 91 *C.* 1903 [1] 921).
- 15) Methylester d. 4-Nitrophenylhydrazonessigsäure. Zers. bei 170 bis 180° (*B.* 37, 3592 *C.* 1904 [2] 1378).
- 16) Methylester d. α -Phenylhydrazon- α -Nitroessigsäure. Sm. 74° (*A.* 328, 250 *C.* 1903 [2] 1000).
- $C_9H_9O_4Br$ *3) 6-Brom-3,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 186° (*B.* 37, 3814 *C.* 1904 [2] 1575).
- $C_9H_9O_4N_5$ 2) Amid d. 3-Nitrophenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 235° (*B.* 37, 4177 *C.* 1904 [2] 1704).
- 3) Amid d. 4-Nitrophenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. oberh. 285° (*B.* 37, 4177 *C.* 1904 [2] 1704).

- $C_9H_9O_6N$ *1) 1-Acetat d. 4-Nitro-1, 2-Dioxybenzol-2-Methyläther. Sm. 101° (B. 36, 2257 C. 1903 [2] 428).
- *35) Aldehyd d. 2-Nitro-3, 4-Dioxybenzol-3, 4-Dimethyläther-1-Carbonsäure. Sm. 64° (63°) (B. 35, 4397 C. 1903 [1] 340; B. 36, 2932 C. 1903 [2] 888; B. 36, 3528 C. 1903 [2] 1378).
- *36) Aldehyd d. 6-Nitro-3, 4-Dioxybenzol-3, 4-Dimethyläther-1-Carbonsäure. Sm. 132° (B. 35, 4396 C. 1903 [1] 340).
- 37) 6-Nitroso-3, 4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 180 bis 190° u. Zers. (C. 1903 [2] 32).
- 38) Aldehyd d. 5-Nitro-3, 4-Dioxybenzol-3, 4-Dimethyläther-1-Carbonsäure. Sm. 90—91° (B. 35, 4399 C. 1903 [1] 341).
- 39) 2-Acetat d. 3-Nitro-1, 2-Dioxybenzol-1-Methyläther. Sm. 135—136° (B. 36, 2257 C. 1903 [2] 428).
- $C_9H_9O_6N$ 12) 1-2-Furanoylamidoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 162—163°. Ba (B. 37, 2958 C. 1904 [2] 993).
- $C_9H_9O_6N_5$ 2) Verbindung (aus Alloxantin). Zers. bei 240° (B. 37, 2687 C. 1904 [2] 830).
- $C_9H_9O_7N$ 1) Äthylcarbonat d. 4-Nitro-1, 2, 3-Trioxymethylbenzol. Sm. 134° (B. 37, 114 C. 1904 [1] 585).
- $C_9H_9O_7N_3$ 5) Methyläther d. 2, 4, 6-Trinitro-5-Oxy-1, 3-Dimethylbenzol. Sm. 127° (B. 21, 329 C. 1903 [1] 78).
- $C_9H_9O_8N_6$ 2) 2, 4, 6-Trinitro-3-Äthylnitramido-1-Methylbenzol. Sm. 79° (R. 21, 333 C. 1903 [1] 78).
- 3) 2, 5, 6-Trinitro-4-Methylnitramido-1, 3-Dimethylbenzol. Sm. 134° (R. 21, 334 C. 1903 [1] 79).
- 4) 2, 4, 6-Trinitro-5-Methylnitramido-1, 3-Dimethylbenzol. Sm. 181° u. Zers. (R. 21, 331 C. 1903 [1] 78).
- $C_9H_9O_{10}N_7$ C 28,8 — H 2,4 — O 42,7 — N 26,1 — M. G. 375.
- $C_9H_9O_{12}N_9$ 1) 2, 4, 6-Trinitro-3, 5-Di[Methylnitramido]-1-Methylbenzol. Sm. 199 bis 200° u. Zers. (R. 23, 127 C. 1904 [2] 200).
- C 24,8 — H 2,1 — O 44,1 — N 29,0 — M. G. 435.
- $C_9H_9N_2Cl$ 1) 2, 4, 6-Trinitro-1, 3, 5-Tri[Methylnitramido]benzol. Sm. 200—203° u. Zers. (R. 23, 129 C. 1904 [2] 201).
- $C_9H_9N_2Cl$ 7) 3-Chlormethylat d. 1, 3-Benzodiazin. Sm. 171—172° (B. 37, 3653 C. 1904 [2] 1514).
- $C_9H_9N_2J$ 4) 3-Jodmethylat d. 1, 3-Benzodiazin. + CH_4O . Sm. 125—127° (B. 37, 3652 C. 1904 [2] 1513).
- $C_9H_9N_3S$ *6) Methyläther d. α -Cyanimido- α -Phenylamido- α -Merkaptomethan. Sm. 186°. NH_4 (C. 1903 [2] 662; A. 331, 296 C. 1904 [2] 33).
- C_9H_9BrMg 1) Magnesiumbromidverbindung d. β -Phenylpropen (C. r. 135, 1348 C. 1903 [1] 328).
- $C_9H_{10}ON_2$ *6) α -Acetyl- β -Benzylidenhydrazin. Sm. 137° (J. pr. [2] 69, 145 C. 1904 [1] 1274).
- 39) 3-Methylhydroxyd d. 1, 3-Benzodiazin. Sm. 163—165°. Chlorid, Jodid (B. 37, 3652 C. 1904 [2] 1514).
- $C_9H_{10}OCl_2$ *1) 4-Keto-1-Dichlormethyl-1, 2-Dimethyl-1, 4-Dihydrobenzol. Sm. 102 bis 103° (B. 35, 4216 C. 1903 [1] 161).
- *2) 4-Keto-1-Dichlormethyl-1, 3-Dimethyl-1, 4-Dihydrobenzol. Sm. 56° (B. 35, 4216 C. 1903 [1] 161).
- *35) Amid d. β -Amido- β -Phenylakrylsäure. Sm. 164,5—165° (C. 1904 [2] 905).
- $C_9H_{10}OBr_2$ 10) β -Bromäthyläther d. 3-Brom-4-Oxy-1-Methylbenzol. Sd. 172 bis 173°₁₅ (B. 36, 2875 C. 1903 [2] 834).
- $C_9H_{10}O_2N_2$ *1) s-Acetylphenylharnstoff. Sm. 183—184° (Am. 30, 418 C. 1904 [1] 241).
- *34) Monophenyldiamid d. Malonsäure + $\frac{1}{2}H_2O$. Sm. 153—154° (wasserfrei) (C. 1904 [1] 1555).
- 49) Methyläther d. α -Benzoylamido- α -Imido- α -Oxymethan. Na, HCl (C. 1904 [1] 1559).
- 50) 2, 4-Di[Formylamido]-1-Methylbenzol. Sm. 176—177° (D. R. P. 138839 C. 1903 [1] 427).
- 51) 3-Acetylamidobenzaldoxim. Sm. 185° (M. 24, 4 C. 1903 [1] 775).
- 52) Methylester d. Phenylhydrazonessigsäure. Sm. 139° (B. 36, 1936 C. 1903 [2] 189).

- $C_9H_{10}O_2N_2$ 53) Amid d. 3-Acetylamidobenzol-1-Carbonsäure. Sm. 216—216,5° (C. 1904 [2] 101).
- $C_9H_{10}O_2N_4$ *6) Amid d. Phenylhydrazonmethan- α -Dicarbonsäure. Sm. 231—232° (B. 37, 4171 C. 1904 [2] 1703).
- 10) Amid d. 4-Methylphenylnitrosohydrazonessigsäure (J. pr. [2] 67, 412 C. 1903 [1] 1347).
- $C_9H_{10}O_3N_2$ *17) β -Phenylureidoessigsäure (J. pr. [2] 70, 245 C. 1904 [2] 1463).
- *44) 4-Nitro-3-Methylphenylamid d. Essigsäure. Sm. 103—104° (Soc. 83, 333 C. 1903 [1] 870).
- *59) Aldehyd d. 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure (D.R.P. 92010; B. 37, 1028 C. 1904 [1] 1207).
- 69) Formyl-4-Amidophenylamidoessigsäure (D.R.P. 154556 C. 1904 [2] 1012).
- 70) Phenylhydrazonoxeyessigmethyläthersäure. Zers. bei 99—100° (Soc. 85, 988 C. 1904 [2] 830).
- 71) Aethylester d. $\beta\delta$ -Dicyan- α -Ketovaleriansäure. Sm. 96—98° (Am. 30, 162 C. 1903 [2] 712).
- 72) Aldehyd d. 5-Nitro-2-Dimethylamidobenzol-1-Carbonsäure. Sm. 105° (M. 25, 368 C. 1904 [2] 322).
- 73) Hydroxylamid d. 2-Methylphenyloxaminsäure. Sm. 152° (Soc. 81, 1571 C. 1903 [1] 158).
- 74) Aethylamid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 120° (Am. 29, 309 C. 1903 [1] 1166).
- $C_9H_{10}O_3Br_2$ 6) Dibrommethylflicinsäure. Sm. 142° (A. 329, 295 C. 1904 [1] 797).
- $C_9H_{10}O_3S$ 8) Sulton d. 1-[α -Oxyisopropyl]benzol-2-Sulfonsäure. Sm. 106—107° (B. 37, 3257 C. 1904 [2] 1031).
- $C_9H_{10}O_4N_2$ *2) p-Dinitro-4-Aethyl-1-Methylbenzol. Sm. 51—52° (B. 36, 1875 C. 1903 [2] 286).
- *25) 4-Amido-2,6-Dimethylpyridin-3,5-Dicarbonsäure (M. 23, 945 C. 1903 [1] 296).
- *32) Aethylester d. 3-Nitro-4-Amidobenzol-1-Carbonsäure. Sm. 136° (D.R.P. 151725 C. 1904 [1] 1587).
- 46) Di[5-Keto-3-Methyl-4,5-Dihydro-4-Isloxazolyl]methan. Sm. 180 bis 183° u. Zers. (A. 332, 12 C. 1904 [1] 1564).
- 47) Nitrosodamascenin. Sm. 150—152° (Ar. 242, 321 C. 1904 [2] 457).
- 48) 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 214—215° (B. 37, 1031 C. 1904 [1] 1208).
- 49) Methyl ester d. 4-[oder 6]-Nitro-6-[oder 4]-Amidobenzol-1,3-Dicarbonsäure. Sm. 128° (G. 33 [2] 289 C. 1904 [1] 265).
- 50) Methyl ester d. 3-Ureido-4-Oxybenzol-1-Carbonsäure. Sm. 183° (D.R.P. 18945; A. 325, 321 C. 1903 [1] 770).
- $C_9H_{10}O_4N_4$ 4) 2,6-Diketo-1,3,7-Trimethylpurin-8-Carbonsäure (D.R.P. 153121 C. 1904 [2] 626).
- 5) Methyl ester d. 2,6-Diketo-3,7-Dimethylpurin-8-Carbonsäure. Sm. 270° (D.R.P. 153121 C. 1904 [2] 626).
- 6) Aethylester d. 2,6-Diketo-3-Methylpurin-8-Carbonsäure. Sm. 304 bis 305° (D.R.P. 153121 C. 1904 [2] 625).
- $C_9H_{10}O_4S$ 6) γ -Oxy- α -Phenylpropen- γ -Sulfonsäure. Na (B. 37, 4044 C. 1904 [2] 1648).
- 7) γ -Oxy- α -Phenylpropan- γ -Schwefelsäure. Na (B. 37, 4046 C. 1904 [2] 1648).
- 8) Aldehyd d. β -Phenylpropionsäure- β -Sulfonsäure. Ba + 2 H₂O (B. 37, 4046 C. 1904 [2] 1648).
- $C_9H_{10}O_5N_2$ 11) Monamid d. 1-2-Furanoylamidoäthan- α - β -Dicarbonsäure. Sm. 172 bis 173°. Ba + 2 H₂O, Cu + H₂O, Ag (B. 37, 2959 C. 1904 [2] 993).
- $C_9H_{10}O_5Br_4$ 1) Dimethylester d. $\alpha\beta\delta\epsilon$ -Tetrabrom- γ -Ketopentan- α - ϵ -Dicarbonsäure. Sm. 207° u. Zers. (B. 37, 3295 C. 1904 [2] 1041).
- $C_9H_{10}O_5S$ *7) 1-Aethylester d. Benzol-1-Carbonsäure-2-Sulfonsäure. Na (Am. 30, 269 C. 1903 [2] 1119).
- 12) Dimethylester d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. 32—33°; Sd. 198—200° (M. 23, 1111 C. 1903 [1] 396).
- 13) Dimethylester d. Benzol-1-Carbonsäure-4-Sulfonsäure. Sm. 88—90° (M. 23, 1127 C. 1903 [1] 396).

- $C_9H_{10}O_6N_2$ 3) Dimethyläther d. 2,4-Dinitro-1-Dioxyethylbenzol. Sd. 183—185°₁₃ (B. 37, 1869 C. 1904 [1] 1601).
- 4) 1-Methyläther-2-Aethyläther d. 3,5-Dinitro-1,2-Dioxybenzol. Sm. 91° (R. 23, 112 C. 1904 [2] 205).
- $C_9H_{10}O_6N_4$ 5) 2,4,6-Trinitro-3-Aethylamido-1-Methylbenzol. Sm. 98° (R. 21, 333 C. 1903 [1] 78).
- 6) 2,4,6-Trinitro-5-Methylamido-1,3-Dimethylbenzol. Sm. 164° (R. 21, 331 C. 1903 [1] 78).
- * $C_9H_{10}O_6N_6$ C 36,2 — H 3,3 — O 32,2 — N 28,2 — M. G. 298.
- 1) 3,5-Dinitro-2,4-Di[Methylnitrosamido]-1-Methylbenzol. Sm. 132° (J. pr. [2] 67, 560 C. 1903 [2] 240).
- $C_9H_{10}O_7N_2$ 5) Trimethyläther d. 2,4-Dinitro-1,3,5-Trioxymethylbenzol. Sm. 165°.
+ C_6H_6O (Ann. 13, 179; R. 23, 116 C. 1904 [2] 205).
- $C_9H_{10}O_7N_4$ C 37,8 — H 3,5 — O 39,1 — N 19,6 — M. G. 286.
- 1) Methyläther d. 3,5-Dinitro-2-Aethylnitramido-1-Oxybenzol. Sm. 67° (R. 23, 113 C. 1904 [2] 205).
- $C_9H_{10}NCl$ 5) α -Chlor- α -Aethylimido- α -Phenylmethan. Sd. 110—111°₁₈ (Soc. 83, 320 C. 1903 [1] 580, 876).
- $C_9H_{10}NJ_3$ 1) 4-Tri[jodmethyl]methylpyridin (4-tert. Trijodbutylpyridin). Sm. 136° (B. 36, 2910 C. 1903 [2] 890).
- $C_9H_{10}Cl_2J_2$ 1) $\alpha\beta$ -Dichloräthyl-3-Methylphenyljodoniumjodid. Sm. 110° (A. 327, 285 C. 1903 [2] 351).
- $C_9H_{10}Cl_3J$ 3) $\alpha\beta$ -Dichloräthyl-3-Methylphenyljodoniumchlorid. Sm. 174°. 2 + $PtCl_4$ (A. 327, 284 C. 1903 [2] 351).
- $C_9H_{11}ON$ *31) 4-Methyl-3,4-Dihydro-1,4-Benzoxazin. Sm. 167—168°; Sd. 252 bis 254°₇₆₉. HCl (Soc. 83, 758 C. 1903 [1] 1419 C. 1903 [2] 448).
- *33) Aldehyd d. 4-Dimethylamidobenzol-1-Carbonsäure. Sm. 73°.
+ 2,4,6-Trinitro-1-Methylbenzol (B. 37, 859 C. 1904 [1] 1206; B. 37, 1733, 1745 C. 1904 [1] 1598).
- *48) Dimethylamid d. Benzolcarbonsäure. Sd. 272—273° (B. 37, 2814 C. 1904 [2] 648).
- *49) Aethylamid d. Benzolcarbonsäure. Sm. 68° (B. 36, 3526 C. 1903 [2] 1326; B. 37, 2815 C. 1904 [2] 648).
- *56) Aethylphenylamid d. Ameisensäure. Sd. 89,5—91°₁₄ (B. 36, 2476 C. 1903 [2] 559).
- *65) Aethyl-4-Amidophenylketon. Sm. 142° (C. 1903 [1] 1222).
- *67) Aldehyd d. 4-Aethylamidobenzol-1-Carbonsäure. Sm. 79° (B. 37, 858 C. 1904 [1] 1206).
- *70) Methyläther d. α -Phenylimido- α -Oxyäthan. Sd. 81—82°₁₂ (A. 333, 294 C. 1904 [2] 905).
- 80) Methyläther d. α -Methylimido- α -Oxy- α -Phenylmethan. Sd. 203 bis 206°. HCl (Soc. 83, 324 C. 1903 [1] 581, 876).
- 81) 2-Methylbenzimidomethyläther. HCl (Soc. 83, 769 C. 1903 [2] 200, 437).
- 82) α -Oximido- β -Phenylpropan (Oxim d. α -Phenylpropionsäurealdehyd). Sd. 124°. — *III, 41.
- 83) 4-Aethylbenzaldoxim (1-Oximidomethyl-4-Aethylbenzol). Sm. 29° (C. r. 136, 558 C. 1903 [1] 832).
- 84) anti-2,4-Dimethylbenzaldoxim. Sm. 85—86° (84—85,5°) (C. 1901 [2] 772; 1903 [2] 878; B. 36, 326 C. 1903 [1] 576; G. 32 [2] 490 C. 1903 [1] 831).
- 85) syn-2,4-Dimethylbenzaldoxim. Sm. 126° (B. 36, 326 C. 1903 [1] 576).
- 86) anti-2,5-Dimethylbenzaldoxim. Sm. 62,5—63,5° (60°) (G. 32 [2] 479 C. 1903 [1] 830; B. 36, 329 C. 1903 [1] 576).
- 87) syn-2,5-Dimethylbenzaldoxim. Sm. 139° (133°) (B. 36, 329 C. 1903 [1] 576; G. 32 [2] 482 C. 1903 [1] 831).
- 88) anti-3,4-Dimethylbenzaldoxim. Sm. 106° (B. 36, 327 C. 1903 [1] 576).
- 89) Aldehyd d. 6-Methylamido-1-Methylbenzol-3-Carbonsäure. Sm. 115° (B. 37, 863 C. 1904 [1] 1206).
- 90) Aldehyd d. 2-Dimethylamidobenzol-1-Carbonsäure. Sd. 120°₁₁ (244°).
+ H_2SO_4 , (2HCl, $PtCl_4$) (B. 37, 973, 987 C. 1904 [1] 1079; M. 25, 371 C. 1904 [2] 322).

- $C_9H_{11}ON$ 91) Amid d. 3-Methylecykloheptatriëncarbonsäure. Sm. 99° (*B.* 36, 3516 *C.* 1903 [2] 1275).
 92) Amid d. 3-Methylnorcaradiëncarbonsäure. Sm. 131° (*B.* 36, 3514 *C.* 1903 [2] 1275).
- $C_9H_{11}ON_3$ 14) β -Semicarbazon- α -Phenyläthan. Sm. 153° (*B.* 36, 3911 *C.* 1903 [2] 1439).
 15) 2-Semicarbazonmethyl-1-Methylbenzol. Sm. 209° (*C. r.* 137, 717 *C.* 1903 [2] 1433).
 16) 4-Semicarbazonmethyl-1-Methylbenzol. Sm. 215° u. Zers. (*C. r.* 137, 717 *C.* 1903 [2] 1433).
 17) 3-Keto-4,5,6-Trimethyl-2,3-Dihydro-5,1,2-Benzotriazol + 3H₂O. Sm. 92° (167° wasserfrei). HJ (*B.* 36, 520 *C.* 1903 [1] 649).
 18) Amid d. 2-Methylphenylhydrazonessigsäure. Sm. 186° (*J. pr.* [2] 67, 410 *C.* 1903 [1] 1347).
 19) Amid d. 4-Methylphenylhydrazonessigsäure. Sm. 168° (*J. pr.* [2] 67, 410 *C.* 1903 [1] 1347).
 20) Benzylidenhydrazid d. Amidoessigsäure. Sm. 157° (*J. pr.* [2] 70, 103 *C.* 1904 [2] 1035).
- $C_9H_{11}OCl$ *7) Chlorid d. α -Camphylsäure. Sd. 138–140°₀₀ (*Soë.* 83, 850 *C.* 1903 [2] 572).
 10) Methyläther d. α -Chlor- α -[2-Oxyphenyl]äthan. Fl. (*B.* 36, 3590 *C.* 1903 [2] 1365).
 11) Aethyläther d. 2-Chlor-1-Oxymethylbenzol. Sd. 212° (*B.* 37, 3696 *C.* 1904 [2] 1387).
 12) Aethyläther d. 3-Chlor-1-Oxymethylbenzol. Sd. 219° (*B.* 37, 3693 *C.* 1904 [2] 1387).
- $C_9H_{11}OBr$ 9) Aethyläther d. 3-Brom-1-Oxymethylbenzol. Sd. 237° (*B.* 37, 3696 *C.* 1904 [2] 1387).
- $C_9H_{11}OJ$ 3) Phenyläther d. γ -Jod- α -Oxypropan. Sm. 12°; Sd. 155–156°₁₆ (*C. r.* 136, 97 *C.* 1903 [1] 455).
 4) 4-Jodoso-1-Propylbenzol. Explod. bei 105°. HClO₄, HJO₃, HNO₃, H₂SO₄, H₂CrO₄ (*A.* 327, 304 *C.* 1903 [2] 353).
 5) 4-Jodoso-3-Aethyl-1-Methylbenzol. Zers. bei 209°. H₂SO₄ (*J. pr.* [2] 69, 437 *C.* 1904 [2] 589).
- $C_9H_{11}O_2N$ *14) 2-Acetylamido-1-Oxymethylbenzol. Sm. 115–116°. HCl (*B.* 37, 2261 *C.* 1904 [2] 212).
 *26) Acetat d. 2-Amido-1-Oxymethylbenzol. HCl, HBr, Pikrat (*B.* 37, 2265 *C.* 1904 [2] 212).
 *35) 4-Aethyläther d. anti-4-Oxybenzaldoxim. Sm. 118° (83–84°?) (*B.* 36, 651 *C.* 1903 [1] 768).
 *49) α -Amido- α -Phenylpropionsäure. Sm. 233° (*B.* 36, 4315 *C.* 1904 [1] 449).
 *51) r - α -Amido- β -Phenylpropionsäure. Sm. 271–273° (231°) (*C.* 1903 [2] 33; *B.* 36, 4312 *C.* 1904 [1] 448; *B.* 37, 3064 *C.* 1904 [2] 1207).
 *59) Methylphenylamidoessigsäure. HCl (*B.* 37, 2637 *C.* 1904 [2] 518).
 *70) 2-Dimethylamidobenzol-1-Carbonsäure. Sm. 70°. (2 + HCl, AuCl₃), HJ + 2H₂O (*B.* 37, 406, 409 *C.* 1904 [1] 942).
 *72) 4-Dimethylamidobenzol-1-Carbonsäure (*B.* 37, 411 Anm. *C.* 1904 [1] 943).
 *77) 2,4,6-Trimethylpyridin-3-Carbonsäure. Sm. 153–155°. (2HCl, PtCl₄) (*B.* 37, 1337 *C.* 1904 [1] 1361).
 *83) Aethylester d. Phenylamidoameisensäure. Sm. 53°; Sd. 152°₁₄ (*B.* 36, 2476 *C.* 1903 [2] 559).
 *84) Aethylester d. 2-Amidobenzol-1-Carbonsäure. Sd. 137,5–138° (D.R.P. 139218 *C.* 1903 [1] 745; *B.* 36, 2476 *C.* 1903 [2] 559).
 *86) Aethylester d. 4-Amidobenzol-1-Carbonsäure. Benzylsulfonat, o-Phenolsulfonat, p-Phenolsulfonat, Phenol- α -Disulfonat, p-Kresol-m-Sulfonat (D.R.P. 147580 *C.* 1904 [1] 130; D.R.P. 147790 *C.* 1904 [1] 131).
 *103) Phenylamid d. Oxyessigmethyläthersäure. Sm. 58° (*A.* 335, 93 *C.* 1904 [2] 1231).
 *114) 2-Aethylamidobenzol-1-Carbonsäure. Sm. 152–153° (D.R.P. 145604 *C.* 1903 [2] 1099).
 *117) Methyl ester d. Methylphenylamidoameisensäure. Sd. 235° (*Am.* 29, 300 *C.* 1903 [1] 1165).

- C₉H₁₁O₂N** 126) 2-Methylacetyl-amido-1-Oxybenzol. Sm. 150° (*Soc.* 83, 756 *C.* 1903 [1] 1419; *C.* 1903 [2] 447).
- 127) 5-Acetyl-amido-2-Oxy-1-Methylbenzol. Sm. 179° (*D.R.P.* 147530 *C.* 1904 [1] 233).
- 128) α -Oximido- α -[2-Oxy-4-Methylphenyl]äthan. Sm. 103° (*C.* 1904 [1] 1597).
- 129) 2-Methyläther d. α -Oximido- α -[2-Oxyphenyl]äthan. Sm. 83° (*B.* 36, 3589 *C.* 1903 [2] 1365).
- 130) 4-Methyläther d. β -Oximido- α -[4-Oxyphenyl]äthan. Sm. 121—122° — *III, 66.
- 131) Amid d. 3-Oxybenzoläthyläther-1-Carbonsäure. Sm. 139—139,5° (*A.* 329, 69 *C.* 1903 [2] 1440).
- 132) β -Oxyäthylamid d. Benzolcarbonsäure. Sm. 58° (*B.* 36, 1279 *C.* 1903 [1] 1215).
- C₉H₁₁O₂N₃** 33) 2-Methylphenylamidoformylharnstoff. Sm. 180° (*Soc.* 81, 158 *C.* 1903 [1] 158).
- 34) 3-Oxy-2-Semicarbazonmethyl-1-Methylbenzol. Zers. bei 210° (*B.* 35, 4106 *C.* 1903 [1] 149).
- 35) 2-Oxy-3-Semicarbazonmethyl-1-Methylbenzol. Sm. 241° u. Zers. (*B.* 35, 4106 *C.* 1903 [1] 149).
- 36) 4-Oxy-3-Semicarbazonmethyl-1-Methylbenzol. Zers. bei 238° (*B.* 35, 4106 *C.* 1903 [1] 149).
- 37) Methyläther d. 4-Oxy-1-Semicarbazonmethylbenzol (Anisaldehyd-semicarbazon). Sm. 203—204° (*J. pr.* [2] 68, 247 *C.* 1903 [2] 1063).
- 38) Amid d. β -Phenylureidoessigsäure. Sm. 201° (*J. pr.* [2] 70, 249 *C.* 1904 [2] 1463).
- 39) Amid d. Methyl-4-Nitrosophenylamidoessigsäure. Sm. 179° (*B.* 37, 2638 *C.* 1904 [2] 519).
- 40) Amid d. 4-Aethoxyphenylazoameisensäure. Sm. 164—165° u. Zers. (*A.* 334, 185 *C.* 1904 [2] 835).
- 41) Diamid d. Benzol-1-Carbonsäure-3-Amidoessigsäure. Sm. 201—202° (*Bl.* [3] 29, 966 *C.* 1903 [2] 1118).
- 42) Hydroxylamid d. α -Phenylhydrazonpropionsäure. Sm. 148° (*Soc.* 81, 1573 *C.* 1903 [1] 158).
- C₉H₁₁O₂Cl** 4) Dimethyläther d. 3,4-Dioxy-1-Chlormethylbenzol. Sm. 50—51° (*B.* 37, 3404 *C.* 1904 [2] 1318).
- C₉H₁₁O₂Br** *4) Brom- α -Camphylsäure. Sm. 107° (*Soc.* 83, 852 *C.* 1903 [2] 572).
- *5) Brom- β -Camphylsäure. Sm. 152° (*Soc.* 83, 871 *C.* 1903 [2] 574).
- C₉H₁₁O₂Br₃** *1) Tribromdihydro- α -Camphylsäure. Sm. 178° u. Zers. (*Soc.* 83, 852 *C.* 1903 [2] 572).
- C₉H₁₁O₂J** 3) 4-Jodo-1-Propylbenzol. Explodiert bei 185—200° (*A.* 327, 308 *C.* 1903 [2] 353).
- 4) 4-Jodo-3-Aethyl-1-Methylbenzol. Zers. bei 229° (*J. pr.* [2] 69, 439 *C.* 1904 [2] 589).
- C₉H₁₁O₂N** *25) α -Oxamido- β -Phenylpropionsäure. Sm. 165° u. Zers. (*B.* 36, 4309 *C.* 1904 [1] 448).
- *28) l-Tyrosin (*H.* 37, 18 *C.* 1903 [1] 60).
- *44) Aethylester d. 4-Oxyphenylamidoameisensäure. Sm. 123° (*J. pr.* [2] 67, 341 *C.* 1903 [1] 1339).
- *51) Amid d. α -Oxy- α -[4-Methoxyphenyl]essigsäure. Sm. 163—164° (*B.* 37, 3174 *C.* 1904 [2] 1303).
- *55) Damascenin. Ba, HCl + H₂O (*Ar.* 242, 295 *C.* 1904 [2] 131; *Ar.* 242, 299 *C.* 1904 [2] 456).
- *60) Aethyl-2-Amidophenylester d. Kohlensäure (*Am.* 31, 475 *C.* 1904 [2] 94).
- 73) Methylamidomethyl-3,4-Dioxyphenylketon (Adrenalon). Zers. bei 230°. HCl, H₂SO₄ (*D.R.P.* 152814 *C.* 1904 [2] 270; *C.* 1904 [2] 1512; *B.* 37, 4152 *C.* 1904 [2] 1744).
- 74) Damascenin-S + 3H₂O. Sm. 144°. HCl + H₂O, (2HCl, PtCl₄ + 4H₂O), HBr + H₂O, H₂SO₄ + H₂O, Cu + 1/2H₂O, Ag + H₂O (*Ar.* 242, 304 *C.* 1904 [2] 456).
- 75) r-Tyrosin. Sm. 316° u. Zers. (*A.* 219, 170; 307, 142; *B.* 30, 2981; 32, 3640). — *II, 929.

- $C_9H_{11}O_3N$ 76) 3-Dimethylamido-1-Oxybenzol- β -Carbonsäure. Sm. 145—146° u. Zers. (D.R.P. 50835). — *II, 916.
 77) α -Oxamido- α -Phenylpropionsäure. Fl. (B. 36, 4315 C. 1904 [1] 449).
 78) 6-Oxy-2-Methyl-5-Aethylpyridin-3-Carbonsäure. Sm. 305° u. Zers. (G. 33 [2] 168 C. 1903 [2] 1283).
 79) 6-Oxy-2,5-Dimethylpyridin-6-Methyläther-3-Carbonsäure. Sm. 167—168° (G. 33 [2] 170 C. 1903 [2] 1283).
 80) Methylester d. β -Amido-2-Oxy-1-Methylbenzol-4-Carbonsäure. HCl (C. 1897 [2] 672). — *II, 922.
 81) Methylester d. 3-Methylamido-4-Oxybenzol-1-Carbonsäure. Sm. 154° (A. 325, 329 C. 1903 [1] 770).
 82) Äthylester d. 2-Hydroxylamidobenzol-1-Carbonsäure. Sm. 78,5° (B. 36, 2700 C. 1903 [2] 996).
 83) Äthyl-4-Amidophenylester d. Kohlensäure (Am. 31, 467 C. 1904 [2] 94).
 84) 1-Acetat d. 5-Amido-4-Oxy-1-Oxymethylbenzol. Sm. 105—107° (D.R.P. 148977 C. 1904 [1] 699).
- $C_9H_{11}O_3N_2$ 16) 5-Nitro-2-Dimethylamidobenzaldoxim. Sm. 125° (M. 25, 369 C. 1904 [2] 322).
 17) 3-Nitro-4-Dimethylamidobenzaldoxim. Sm. 132° (B. 37, 1030 C. 1904 [1] 1207).
 18) 5-Nitro-2-Oxy-1,3-Dimethyl-2,3-Dihydrobenzimidazol. Sm. 128° (B. 36, 3969 C. 1904 [1] 177).
 19) α -Phenylsemicarbazidoessigsäure. Sm. 190—191° (B. 36, 3884 C. 1904 [1] 27).
 20) Amid d. 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 210° (B. 37, 1741 C. 1904 [1] 1599).
- $C_9H_{11}O_3Br$ 4) α -[β -Bromphenyl]äther d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 81° (B. 36, 2064 C. 1903 [2] 357).
- $C_9H_{11}O_4N$ *3) Dimethyläther d. 2-Nitro-1-Dioxymethylbenzol (B. 36, 3652 C. 1903 [2] 1332).
 *7) Dimethyläther d. 6-Nitro-3,4-Dioxy-1-Methylbenzol. Sm. 118° (118—120°) (B. 37, 1933 C. 1904 [2] 129; M. 25, 890 C. 1904 [2] 1313).
 31) 6-Nitro-3,4-Dioxy-1-Propylbenzol. Sm. 73° (Ar. 242, 87 C. 1904 [1] 1007).
 32) 2,4,6-Trioxy-5-Oximidomethyl-1,3-Dimethylbenzol. Zers. bei 168° (M. 24, 879 C. 1904 [1] 369).
 33) Äthylester d. α -Cyan- β -Acetoxypropen- α -Carbonsäure. Sd. 115 bis 135°, u. Zers. (Bl. [3] 31, 337 C. 1904 [1] 1135).
 34) Äthylester d. 2-Furanoylamidoessigsäure. Sm. 77° (B. 37, 2957 C. 1904 [2] 993).
 35) Äthylester d. β -Acetylamidofuran-2-Carbonsäure. Sm. 177,5° (C. r. 136, 1455 C. 1903 [2] 292).
- $C_9H_{11}O_4N_2$ 13) Semicarbazidomethyl-3,4-Dioxyphenylketon. Sm. 187° (B. 34, 100). — *III, 109.
- $C_9H_{11}O_5N$ 6) Trimethyläther d. 4-Nitro-1,2,3-Trioxybenzol. Sm. 44° (B. 37, 117 C. 1904 [1] 585).
 C 44,8 — H 4,5 — O 33,2 — N 17,4 — M. G. 241.
- $C_9H_{11}O_5N_2$ 1) Methyläther d. 3,5-Dinitro-4-Methylamido-2-Oxy-1-Methylbenzol. Sm. 117,5° (J. pr. [2] 67, 558 C. 1903 [2] 240).
 2) Methyläther d. 3,5-Dinitro-2-Aethylamido-1-Oxybenzol. Sm. 123° (R. 23, 113 C. 1904 [2] 205).
 3) Methyläther d. 4,6-Dinitro-3-Aethylamido-1-Oxybenzol. Sm. 148° (R. 23, 121 C. 1904 [2] 206).
 C 40,1 — H 4,1 — O 29,7 — N 26,0 — M. G. 269.
- $C_9H_{11}O_5N_3$ 1) 3,5-Dinitro-2-Methylamido-4-Methylnitrosamido-1-Methylbenzol. Sm. 186—187° (J. pr. [2] 67, 561 C. 1903 [2] 241).
- $C_9H_{11}O_5Cl$ 1) $\gamma\epsilon$ -Lakton d. ζ -Chlor- ϵ -Oxy- β -Ketoheptan- $\alpha\gamma$ -Dicarbonsäure- α -Methylester. Fl. Cu (C. r. 136, 436 C. 1903 [1] 698).
 C 37,9 — H 3,8 — O 33,7 — N 24,6 — M. G. 285.
- $C_9H_{11}O_6N_5$ 1) 2,4,6-Trinitro-3,5-Di[Methylamido]-1-Methylbenzol. Sm. 156° (R. 23, 127 C. 1904 [2] 201).
- $C_9H_{11}NS$ 13) Phenyläther d. α -Imido- α -Merkaptopropan. HCl (B. 36, 3466 C. 1903 [2] 1243).

- $C_9H_{11}NS$ 14) Phenylamid d. Thiopropionsäure. Sm. 67—67,5° (B. 36, 587 C. 1903 [1] 830).
- $C_9H_{11}NS_2$ *6) Dimethyläther d. Phenylimidodimerkaptomethan (C. r. 136, 452 C. 1903 [1] 699).
- *7) Aethylphenylamidodithioameisensäure. NH_4 (J. pr. [2] 67, 286 C. 1903 [1] 1306).
- 10) Methylbenzyläther d. Imidodimerkaptomethan. HJ (Bl. [3] 29, 54 C. 1903 [1] 446; C. r. 135, 976 C. 1903 [1] 139).
- $C_9H_{11}N_3S_2$ 3) Methyläther d. α -Thioureido- α -Phenylimido- α -Merkaptomethan. Sm. 122° (Am. 30, 172 C. 1903 [2] 871).
- 4) Methyläther d. α -[β -Phenylthioureido]- α -Imido- α -Merkaptomethan. Sm. 124° (Am. 30, 172 C. 1903 [2] 871).
- $C_9H_{11}Cl_2J$ 3) 4-Propylphenyljodidchlorid. Sm. 68° (A. 327, 304 C. 1903 [2] 353).
- 4) 4-Dichlorjodoso-3-Aethyl-1-Methylbenzol. Sm. 108° (J. pr. [2] 69, 437 C. 1904 [2] 589).
- $C_9H_{11}ON_2$ *7) 4-Methylnitrosamido-1,3-Dimethylbenzol. Fl. (A. 327, 109 C. 1903 [1] 1213).
- *37) β -Phenylhydrazon- α -Oxypropan. Sm. 106° (A. 335, 253 C. 1904 [2] 1283).
- *47) Amid d. Methylphenylamidoessigsäure. Sm. 163° (B. 37, 2637 C. 1904 [2] 518).
- *50) Amid d. 4-Methylphenylamidoessigsäure. Sm. 168° (D.R.P. 142559 C. 1903 [2] 81).
- *56) Aethyläther d. α -Phenylamido- α -Imido- α -Oxymethan. Ag (C. 1904 [1] 1560).
- 66) 2-Dimethylamidobenzaldoxim. Sm. 87—87,2° (84—85°) (B. 37, 978 C. 1904 [1] 1079; M. 25, 373 C. 1904 [2] 322).
- 67) 4-Dimethylamidobenzaldoxim. Sm. 144° (B. 20, 3195; B. 37, 860 C. 1904 [1] 1206).
- 68) 4-Aethylamidobenzaldoxim. Sm. 118° (B. 37, 858 C. 1904 [1] 1206).
- 69) 2-[β -Acetylamidoäthyl]pyridin. Sd. 175° (B. 37, 172 C. 1904 [1] 673).
- $C_9H_{12}OCl_2$ 1) 4-Oxy-1-Dichlormethyl-1,4-Dimethyl-1,4-Dihydrobenzol. Sm. 96° (B. 36, 1868 C. 1903 [2] 286).
- $C_9H_{12}O_2N_2$ *43) 5-Nitro-3-Dimethylamido-1-Methylbenzol. Sm. 52° (C. 1903 [2] 1051).
- 53) α -[β -Oxyäthyl]- β -Phenylharnstoff. Sm. 122—123° (B. 36, 1280 C. 1903 [1] 1215).
- 54) Aethylester d. 3,4-Diamidobenzol-1-Carbonsäure. Sm. 112—113° (D.R.P. 151725 C. 1904 [1] 1587).
- 55) Aethylester d. 3,6-Dimethyl-1,2-Diazin-4-Carbonsäure. Sm. 55—57° (B. 36, 512 C. 1903 [1] 654; B. 37, 2187 C. 1904 [2] 240).
- 56) Amid d. 2-Oxyphenylamidoessigmethyläthersäure. Sm. 153—154° (Bl. [3] 29, 967 C. 1903 [2] 1118).
- 57) Amid d. 4-Oxyphenylamidoessigmethyläthersäure. Sm. 145—146° (Bl. [3] 29, 967 C. 1903 [2] 1118).
- $C_9H_{12}O_2N_4$ 13) 2,6-Diketo-1,3-Diäthylpurin (Diäthylxanthin). Sm. 208° (C. 1904 [2] 1497).
- 14) Hydrazid d. β -Phenylureidoessigsäure. Sm. 186,5°. HCl (J. pr. [2] 70, 247 C. 1904 [2] 1463).
- $C_9H_{12}O_2Br_2$ *1) Dibromdihydro- α -Camphylsäure. Sm. 165—170° u. Zers. (Soc. 83, 852 C. 1903 [2] 572).
- *2) Dibromdihydro- β -Camphylsäure. Sm. 172° u. Zers. (Soc. 83, 870 C. 1903 [2] 574).
- $C_9H_{12}O_3N_2$ *7) Aethylester d. 5-Acetyl-4-Methylpyrazol-3-Carbonsäure. Sm. 121° (Am. 325, 181 C. 1903 [1] 646).
- 8) 3-Acetyl-4-Methyl-1-Aethylpyrazol-5-Carbonsäure. Sm. 167—168° (B. 36, 1131 C. 1903 [1] 1138).
- 9) Methylderivat d. γ -Dicyanacetessigsäureäthylester. Sm. 110—113° (A. 332, 138 C. 1904 [2] 190).
- $C_9H_{12}O_3S$ *16) 1,2,4-Trimethylbenzol-5-Sulfonsäure. + H_3PO_4 (R. 21, 356 C. 1903 [1] 151).
- *21) Aethylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 32—33° (A. 327, 121 C. 1903 [1] 1221).

- $C_9H_{12}O_3S$ 25) α -Oxyäthyl-4-Methylphenylsulfon. Sm. 52—72° (*Am.* 31, 166 *C.* 1904 [1] 875).
- $C_9H_{12}O_3Se$ 1) d-Methylphenylselenetin. d-Bromcamphersulfonat (*Soc.* 81, 1554 *C.* 1903 [1] 22, 144).
2) l-Methylphenylselenetin. d-Bromcamphersulfonat (*Soc.* 81, 1555 *C.* 1903 [1] 22, 144).
- $C_9H_{12}O_4N_2$ *3) Diäthylester d. β -Cyan- β -Imidoäthan- α -Dicarbonsäure (D. d. Dicyanmalonsäure). Sm. 93° (*A.* 332, 118 *C.* 1904 [2] 189).
5) l-Methyläther-4-Aethyläther d. 5-Nitro-2-Amido-1,4-Dioxybenzol. Sm. 148° (D.R.P. 141975 *C.* 1903 [1] 1380).
6) α -Cyan- α -Oxyessig- $[\beta$ -Cyan- α -Aethoxypropyl]äthersäure. Sm. 145° (*C.* 1904 [1] 159).
7) Aethylester d. l-Acetyl-3-Keto-5-Methyl-2,3-Dihydropyrazol-2-Carbonsäure. Sm. 58° (P. GUTMANN, Dissert., Heidelberg 1903).
8) Diäthylester d. isom. Dicyanmalonsäure. Sm. 123° (*A.* 332, 119 *C.* 1904 [2] 189).
- $C_9H_{12}O_4N_4$ 3) 3,5-Dinitro-2,4-Di[Methylamido]-l-Methylbenzol. Sm. 169—170° (*J. pr.* [2] 67, 546 *C.* 1903 [2] 240).
4) 2,4-Dinitro-3,5-Di[Methylamido]-l-Methylbenzol. Sm. 140° (*R.* 23, 126 *C.* 1904 [2] 200).
- $C_9H_{12}O_4S_2$ 2) α -Aethylsulfon- α -Phenylsulfonmethan. Sm. 110—111° (*B.* 36, 300 *C.* 1903 [1] 500).
3) 2,4-Di[Methylsulfon]-l-Methylbenzol. Sm. 153—154° (*J. pr.* [2] 68, 335 *C.* 1903 [2] 1172).
4) Dimethylester d. l-Methylbenzol-2,4-Disulfinsäure. Fl. (*J. pr.* [2] 68, 335 *C.* 1903 [2] 1172).
- $C_9H_{12}O_5N_6$ *1) Dipyrvintriureid + 2H₂O (*C. r.* 136, 507 *C.* 1903 [1] 763).
 $C_9H_{12}O_5Br_2$ 1) Dimethylester d. β -Dibrom- γ -Ketopentam- α -Dicarbonsäure. Sm. 58° (*B.* 37, 3295 *C.* 1904 [2] 1041).
- $C_9H_{12}O_7S_2$ 2) γ -Oxy- α -Phenylpropan- $\alpha\gamma$ [oder $\beta\gamma$]-Disulfonsäure. K + H₂O, Ba + 3H₂O (*B.* 24, 1806; *B.* 37, 4045 *C.* 1904 [2] 1648).
- $C_9H_{12}N_2S_2$ *13) Aethyläther d. Phenylamidoimidomerkaptomethan (*Soc.* 83, 553 *C.* 1903 [1] 1123).
14) Methyläther d. 2-Methylphenylamidoimidomerkaptomethan. Sm. 101—102°. HCl (*Soc.* 83, 556 *C.* 1903 [1] 1123; *Am.* 30, 179 *C.* 1903 [2] 872).
15) Methyläther d. 4-Methylphenylamidoimidomerkaptomethan. Sm. 65—67°. HCl, HJ (*Soc.* 83, 555 *C.* 1903 [1] 1123; *Am.* 30, 173 *C.* 1903 [2] 871).
- $C_9H_{12}N_2S_2$ 5) Methylester d. β -[2-Methylphenyl]hydrazidodithioameisensäure. Sm. 148° (*B.* 36, 1370 *C.* 1903 [1] 1342).
6) Methylester d. β -[3-Methylphenyl]hydrazidodithioameisensäure. Sm. 111° (*B.* 36, 1372 *C.* 1903 [1] 1343).
- $C_9H_{12}N_4S_2$ *1) 2,4-Di[Thioureido]-l-Methylbenzol (4-Methyl-1,3-Phenylendithioharnstoff) (D.R.P. 144762 *C.* 1903 [2] 814; D.R.P. 139429 *C.* 1903 [1] 904).
- $C_9H_{13}ON$ 44) 2-Methyläthylamido-l-Oxybenzol. HCl (*Soc.* 83, 757 *C.* 1903 [1] 1419 *C.* 1903 [2] 447).
45) Methyläther d. 2-Amido-5-Oxy-1,3-Dimethylbenzol. Sm. 42,5—43° (*B.* 36, 2039 *C.* 1903 [2] 360).
46) Nitril d. 5-Keto-1,3-Dimethylhexahydrobenzol-1-Carbonsäure. Sm. 92—94° (*B.* 37, 4061 *C.* 1904 [2] 1650).
- $C_9H_{13}ON_3$ *7) β -Phenylamido- α -Aethylharnstoff. Sm. 151° (*B.* 36, 1377 *C.* 1903 [1] 1344).
16) α -Amido- β -Aethyl- α -Phenylharnstoff. Sm. 88° (*B.* 36, 1376 *C.* 1903 [1] 1344).
17) Inn. Anhydrid d. 2-Semicarbazon-1-Oxymethylen-R-Heptamethylen. Sm. 181—183° (*A.* 329, 128 *C.* 1903 [2] 1323).
18) Inn. Anhydrid d. 3-Semicarbazon-4-Oxymethylen-1-Methylhexahydrobenzol. Sm. 154—157° (*A.* 329, 119 *C.* 1903 [2] 1322).
- $C_9H_{13}OCl$ *2) Chlorid d. α -Oktin- α -Carbonsäure. Sd. 113—116°₂₅ (*C. r.* 136, 554 *C.* 1903 [1] 825).
- $C_9H_{13}O_2N$ *3) Anhydroecgonin. (HBr, Br₂) (*Ar.* 242, 9 *C.* 1904 [1] 731).
*7) Aethylester d. 2,5-Dimethylpyrrol-3-Carbonsäure. Sm. 117° (*C.* 1903 [2] 1281).

- $C_9H_{13}O_3N$ 12) 2,5-Dimethyl-1-Aethylpyrrol-3-Carbonsäure (*C.* 1903 [2] 1281).
- $C_9H_{13}O_2N_3$ 4) p-Nitro-3,4-Di[Methylamido]-1-Methylbenzol. Sm. 194° (*B.* 36, 3972 *C.* 1904 [1] 178).
- 5) Aethyläther d. β -[4-Oxyphenyl]amidoharnstoff. Sm. 190° u. Zers. (*A.* 334, 185 *C.* 1904 [2] 835).
- $C_9H_{13}O_2Br$ *2) Bromdihydro- β -Camphylsäure. Sm. 130° (*Soc.* 83, 866 Anm. *C.* 1903 [2] 574).
- 8) isom. Bromdihydro- β -Camphylsäure. Sm. 137—138° (*Soc.* 83, 866 *C.* 1903 [2] 574).
- $C_9H_{13}O_3N$ 20) 4-Tri[Oxymethyl]methylpyridin (4-tert. Trioxybutylpyridin). Sm. 156 bis 157°, HCl (*B.* 36, 2909 *C.* 1903 [2] 890).
- 21) Adrenalin (Suprarenin; Epinephrinhydrat). Sm. 206—207° (*C.* 1901 [2] 1354; 1903 [1] 1156; *B.* 36, 1839; *M.* 24, 263 *C.* 1903 [2] 302; *C. r.* 135, 1142 *C.* 1903 [1] 274; *B.* 36, 2944 *C.* 1903 [2] 895; *Soc.* 75, 192 *C.* 1904 [1] 816, 957; *B.* 37, 1388 *C.* 1904 [1] 1526; *B.* 37, 2022 *C.* 1904 [2] 239; *C. r.* 139, 502 *C.* 1904 [2] 1156; *C.* 1904 [2] 1512, 1575; *B.* 37, 4149 *C.* 1904 [2] 1743). — *III, 666.
- 22) Tropinon-O-Carbonsäure. Na (*B.* 34, 1458; *A.* 326, 51 *C.* 1903 [1] 841). — *III, 610.
- $C_9H_{13}O_3Cl$ 1) Aethylester d. α -Chlor- δ -Keto- β -Methyl- β -Penten- γ -Carbonsäure. Sd. 120°₁₉₋₂₀ (*C.* 1904 [1] 956).
- 2) Aethylester d. 2-Chlormethyl-5-Methyl-2,3-Dihydrofuran-4-Carbonsäure. Sm. 57—58°; Sd. 141—143°₁₇ (*C. r.* 137, 12 *C.* 1903 [2] 507).
- $C_9H_{13}O_4N$ 10) Aethyläther d. Verb. $C_7H_9O_4N$. Sm. 80° (*G.* 34 [1] 466 *C.* 1904 [2] 537).
- 11) Verbindung (aus Dimethylamin u. 2,4-Dioxybenzol-1-Carbonsäureäthylester). Sm. 95° (D.R.P. 141101 *C.* 1903 [1] 1058).
- $C_9H_{13}O_4N_5$ 2) 2,4-Dinitro-1,3,5-Tri[Methylamido]benzol. Sm. 220° (*B.* 23, 129 *C.* 1904 [2] 201).
- $C_9H_{13}O_4Br$ 7) δ -Laktone d. δ -Oxy- β -Methylhexan- ϵ - ζ -Dicarbonsäure. Sm. 144—145° u. Zers. (*A.* 331, 146 *C.* 1904 [1] 933).
- $C_9H_{13}O_4P$ 2) Dimethylester d. α -Oxybenzylphosphinsäure. Sm. 99° (*C. r.* 135, 1119 *C.* 1903 [1] 285).
- 3) Dimethyl- p -Methylphenylester d. Phosphorsäure (D.R.P. 142971 *C.* 1903 [2] 171).
- $C_9H_{13}O_6N$ 2) γ -Oximido- δ -Ketoheptan- $\alpha\eta$ -Dicarbonsäure. Sm. 133—136° u. Zers. (*B.* 37, 3826 *C.* 1904 [2] 1607).
- $C_9H_{13}O_6Br$ 1) Trimethylester d. β -Brompropan- $\alpha\beta\gamma$ -Tricarbonsäure. Sm. 98—99° (*B.* 36, 3292 *C.* 1903 [2] 1167).
- $C_9H_{13}O_6N_3$ C 35,2 — H 4,2 — O 46,9 — N 13,7 — M. G. 307.
- 1) Trimethyläther d. Nitrotrioxydichinolnitrosäure. Na₂ (*Am.* 29, 117 *C.* 1903 [1] 709).
- $C_9H_{13}NJ_2$ 1) Jodäthylat d. 4-Jod-2,6-Dimethylpyridin. Sm. 239—240° (*A.* 331, 256 *C.* 1904 [1] 1223).
- $C_9H_{13}NS$ 2) 4-Thiocarbonyl-2,6-Dimethyl-1-Aethyl-1,4-Dihydropyridin. Sm. 248° (*A.* 331, 258 *C.* 1904 [1] 1223).
- $C_9H_{13}NSe$ 1) 4-Selenocarbonyl-2,6-Dimethyl-1-Aethyl-1,4-Dihydropyridin. Sm. 254° (*A.* 331, 263 *C.* 1904 [1] 1223).
- $C_9H_{13}N_3S$ *4) Methyläther d. α -[α -Methylhydrazido]- α -Phenylimido- α -Merkapto-methan. Sm. 132° (*B.* 37, 2322 *C.* 1904 [2] 312).
- 8) 4-Dimethylamidophenylthioharnstoff. Sm. 180—181° (*C.* 1903 [1] 1258).
- 9) α -Amido- β -Methyl- α -Benzylthioharnstoff. Sm. 129° (*B.* 37, 2327 *C.* 1904 [2] 313).
- 10) Methyläther d. α -[α -Phenylhydrazido]- α -Methylimido- α -Merkapto-methan. Fl. (*B.* 37, 2331 *C.* 1904 [2] 314).
- $C_9H_{14}O_2N_2$ *7) Nitrosodihydrolauro-laktam. Sm. 138—139° (*Am.* 32, 288 *C.* 1904 [2] 1222).
- 10) Anhydrid d. i-Nitrosamidolauronsäure. Sm. 138° (*Am.* 28, 485 *C.* 1903 [1] 329).
- 11) Nitril d. α -Oxyessig- $[\beta$ -Cyan- α -Aethoxybutyl]äthersäure. Sm. 115° (*C.* 1904 [1] 160).

- $C_9H_{11}O_2N_2$ 12) Aethylester d. 1-Amido-2,5-Dimethylpyrrol-3-Carbonsäure. Sm. 87—88° (B. 37, 2191 C. 1904 [2] 240).
- 13) Aethylester d. 3,6-Dimethyl-4,5-Dihydro-1,2-Diazin-4-Carbonsäure. Sm. 108—109° (108—110°); Sd. 245—248° (B. 35, 4313 C. 1903 [1] 335; B. 36, 502 C. 1903 [1] 654; B. 37, 2186 C. 1904 [2] 239).
- 14) Verbindung (aus d. Säure $C_{10}H_{14}O_4N_2$). = $(C_9H_{11}O_2N_2)_x$ (C. 1904 [1] 159).
- $C_9H_{14}O_2Br_2$ *4) Dibromid d. cis-trans-Campholytischen Säure (i-Dibromdihydro- α -Campholytsäure). Sm. 111—116° (Soc. 83, 854 C. 1903 [2] 572).
- 9) Dibromtetrahydro- α -Camphylsäure. Sm. 156° (Soc. 83, 851 C. 1903 [2] 572).
- $C_9H_{14}O_3N_2$ 6) 2,4,6-Triketo-5-Aethyl-5-Propylhexahydro-1,3-Diazin. Sm. 146° (D. R. P. 146496 C. 1903 [2] 1484; A. 335, 546 C. 1904 [2] 1381).
- 7) 2,4,6-Triketo-1-Methyl-5,5-Diäthylhexahydro-1,3-Diazin. Sm. 154,5° (D. R. P. 146496 C. 1903 [2] 1484; A. 335, 348 C. 1904 [2] 1381).
- $C_9H_{14}O_3N_4$ 4) 5-Formylamido-6-Amido-2,4-Diketo-1,3-Diäthyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 235° (C. 1904 [2] 1497).
- $C_9H_{14}O_4N_2$ 4) 2,6-Dioximido-hexahydrobenzol-1-Propionsäure. Sm. 203—206° (B. 37, 3824 C. 1904 [2] 1607).
- $C_9H_{14}O_4Br_2$ 8) $\delta\epsilon$ -Dibrom- β -Methylhexan- ϵ -Dicarbonsäure. Sm. 168—171° u. Zers. (A. 331, 145 C. 1904 [1] 933).
- $C_9H_{14}O_5S$ *3) Sulfocamphylsäure (Soc. 83, 835 C. 1903 [2] 571).
- $C_9H_{14}O_7N_4$ 2) Carboxylamidoacetylamilidoacetylamilidoessigsäure (Triglycylglycincarbonsäure). Sm. 235° u. Zers. (B. 36, 2104 C. 1903 [1] 1304).
- $C_9H_{14}O_{12}N_4$ C 29,2 — H 3,8 — O 51,9 — N 15,1 — M. G. 370.
- 1) Säure (aus d. Verb. $C_9H_{16}O_8N_4$). Sm. 149°. $Cu_2 + H_2O$, Ag_4 (B. 36, 1510 C. 1903 [1] 1302).
- $C_9H_{14}NCl$ *1) Trimethylphenylammoniumchlorid. + $6HgCl_2$ (J. pr. [2] 66, 473 C. 1903 [1] 561).
- $C_9H_{14}NJ$ *1) Trimethylphenylammoniumjodid. Sm. 216° (B. 37, 414 C. 1904 [1] 943).
- $C_9H_{14}NJ_3$ 1) Trimethylphenylammoniumnonajodid. Sm. 69° (J. pr. [2] 67, 350 C. 1903 [1] 1297).
- $C_9H_{15}ON$ *19) Inn. Anhydrid d. Amidodihydrolauronolsäure. Sd. 285° (Am. 32, 288 C. 1904 [2] 1222).
- *32) Pulegenonoxim. Sd. 237—242° (A. 327, 133 C. 1903 [1] 1412).
- 38) 5-Keto-2,2-Dimethyl-4-Isopropylidentetrahydropyrrol. Sm. 121° (B. 36, 3368 C. 1903 [2] 1186).
- 39) 5-Hexylisoxazol. Sd. 103—104°₁₅ (C. r. 138, 1341 C. 1904 [2] 187).
- 40) Piperidon (aus Pinophoron). Sd. 136—140°₁₄ (B. 37, 240 C. 1904 [1] 726).
- 41) Amid d. $\beta\epsilon$ -Dimethyl- $\beta\delta$ -Hexadien- γ -Carbonsäure. Sm. 59°; Sd. 142—145°₁₄ (B. 36, 3364 C. 1903 [2] 1186).
- 42) Amid d. r- α -Campholytsäure. Sm. 103° (C. r. 138, 696 C. 1904 [1] 1086).
- $C_9H_{15}ON_3$ 3) α -Semicarbazon- β -Oktin. Sm. 90° (C. r. 138, 1341 C. 1904 [2] 187).
- 4) Semicarbazon d. Ketobicyclo[1,2,3]oktan. Sm. 189—190° (B. 36, 3612 C. 1903 [2] 1372).
- $C_9H_{15}O_2N$ *6) Hydroecgonidin. HCl, (HCl, $AuCl_3 + 5H_2O$) (Ar. 242, 9 C. 1904 [1] 731).
- *18) β -Isomerochinen. (2HCl, $PtCl_4$), (HCl, $AuCl_3$) (M. 24, 307 C. 1903 [2] 297).
- *19) 2,2,5,5-Tetramethyl-2,5-Dihydropyrrol-3-Carbonsäure (B. 36, 3371 C. 1903 [2] 1187).
- 25) Allomerochinen. HCl, (2HCl, $PtCl_4 + 3H_2O$), (HCl, $AuCl_3$) (M. 23, 460). — *III, 640.
- 26) Amid d. i-Camphononsäure. Sm. 215° (Am. 28, 484 C. 1903 [1] 329).
- $C_9H_{15}O_2Br$ 9) 2-Brom-1,1,2-Trimethyl-R-Pentamethylen-5-Carbonsäure. Sm. 108° u. Zers. (Soc. 85, 145 C. 1904 [1] 728).
- 10) i-Bromdihydro- α -Campholytsäure. Sm. 100° (Soc. 83, 854 C. 1903 [2] 572).
- $C_9H_{15}O_6N$ *2) d-Ecgonin. HCl + $\frac{1}{2}[1]H_2O$ (A. 326, 63 C. 1903 [1] 841).

- $C_9H_{15}O_3N$ *17) **r-Elegonin** (Pseudotropin-C-Carbonsäure). Sm. 251° u. Zers. (A. 326, 61 C. 1903 [1] 841).
- *18) **Pseudotropin-O-Carbonsäure** + $3H_2O$. Sm. 201—202° u. Zers. HCl + $1\frac{1}{2}H_2O$, (HCl, $AuCl_3$) (A. 326, 54 C. 1903 [1] 841).
- 22) **Acetylscopolin**. Sm. 53°; Sd. oberh. 250° (D.R.P. 79864). — *III, 619.
- 23) **5-Oximido-1,3-Dimethylhexahydrobenzol-1-Carbonsäure**. Sm. 155 bis 156° (B. 37, 4072 C. 1904 [2] 1652).
- 24) **Verbindung** (aus Trimethylamin u. 1,2,3-Trioxybenzol). Sm. 160° (D.R.P. 141101 C. 1903 [1] 1058).
- $C_9H_{15}O_5N_3$ 10) **5-Semicarbazon-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure**. Sm. 217° (C. 1903 [1] 923; Soc. 85, 140 C. 1904 [1] 728).
- $C_9H_{15}O_5N$ 6) **Verbindung** (aus Dimethylamin u. 3,4,5-Trioxybenzol-1-Carbonsäuremethylester). Sm. 164° (D.R.P. 141101 C. 1903 [1] 1058).
- $C_9H_{15}O_6N$ 2) **Triäthylester d. Stickstofftricarbonsäure**. Sd. 146—147°₁₂ (B. 36, 740 C. 1903 [1] 827).
- $C_9H_{15}O_6N_3$ 2) **N-Aethylester d. Carboxylamidoacetylamidoacetylamidoessigsäure** (Carbäthoxyldiglycylglycin). Sm. 212—214° (B. 36, 2100 C. 1903 [1] 1304; B. 36, 2985 C. 1903 [2] 1111).
- $C_9H_{15}O_6N_5$ C 37,4 — H 5,2 — O 33,2 — N 24,2 — M. G. 289.
- 1) **Methylester d. δ -Oximido- ε -Semicarbazidohydroxyhydrizon- γ -Keto- β -Methylpentan- β -Carbonsäure**. Sm. 170° u. Zers. (Soc. 83, 1256 C. 1903 [2] 1423).
- $C_9H_{15}NCl_2$ 1) **Verbindung** (aus r- α -Campbolytsäureamid). Sm. 175° (C. r. 138, 696 C. 1904 [1] 1086).
- $C_9H_{15}ON_2$ 15) **2-Di[Dimethylamido]methylfuran**. (2HCl, $PtCl_4$) (A. 335, 376 C. 1904 [2] 1406).
- 16) **5-Keto-3-Hexyl-4,5-Dihydropyrazol**. Sm. 197° (C. r. 136, 755 C. 1903 [1] 1019).
- 17) **5-Keto-3-Methyl-4-Amyl-4,5-Dihydropyrazol**. Sm. 186—187° (Bl. [3] 31, 761 C. 1904 [2] 343).
- 18) **5-Keto-4-Methyl-3-Amyl-4,5-Dihydropyrazol**. Sm. 164—165° (Bl. [3] 31, 596 C. 1904 [2] 26).
- 19) **5-Keto-3-Methyl-4-Isoamyl-4,5-Dihydropyrazol**. Sm. 217—218° (Bl. [3] 31, 761 C. 1904 [2] 343).
- 20) **5-Keto-4-Methyl-3-Isoamyl-4,5-Dihydropyrazol**. Sm. 177—178° (Bl. [3] 31, 599 C. 1904 [2] 26).
- 21) **5-Keto-4-Aethyl-3-Isobutyl-4,5-Dihydropyrazol**. Sm. 106° (Bl. [3] 31, 595 C. 1904 [2] 26).
- 22) **5-Keto-3,4-Dipropyl-4,5-Dihydropyrazol**. Sd. 190—200°₁₄ (Bl. [3] 31, 594 C. 1904 [2] 26).
- 23) **5-Keto-3-Propyl-4-Isopropyl-4,5-Dihydropyrazol**. Sm. 133° (Bl. [3] 31, 594 C. 1904 [2] 26).
- $C_9H_{16}OCl_2$ 1) **Dihydrochlorid d. Phoron**. Fl. (B. 36, 3536 C. 1903 [2] 1368).
- $C_9H_{16}OBr_2$ 2) **Dihydrobromid d. Phoron**. Sm. 19° (B. 36, 3536 C. 1903 [2] 1368).
- $C_9H_{16}OS_2$ 1) **Xanthogenat d. 2-Oxy-1-Methylhexahydrobenzol**. Sd. 149—151°₁₅ (C. 1903 [2] 289).
- $C_9H_{16}O_2N_2$ 11) **Pseudotropylaminocarbamat** (B. 31, 1209). — *III, 614.
- $C_9H_{16}O_4N_2$ 3) **Diäthylester d. α -Isopropylidenhydrazin- α' - β -Dicarbonsäure** (Acetessigesterhydrazonecarbonester). Sm. 64° (P. GUTMANN, Dissert., Heidelberg 1903).
- $C_9H_{16}O_5N_2$ *2) **Diäthylester d. Carboxylamidoacetylamidoessigsäure** (α -Carbäthoxyglycylglycinäthylester). Sm. 87° (B. 36, 2097 C. 1903 [1] 1303; B. 36, 2110 C. 1903 [2] 345).
- 4) **isom. Diäthylester d. Carboxylamidoacetylamidoessigsäure** (β -Carbäthoxyglycylglycinäthylester). Sm. 148—150° (B. 36, 2097 C. 1903 [1] 1303).
- $C_9H_{16}O_5N_4$ 2) **Amid d. Carboxylamidoacetylamidoacetylamidoessigsäure - N-Aethylester** (Carbäthoxyldiglycylglycinamid). Sm. 235° (B. 36, 2101 C. 1903 [1] 1304).
- $C_9H_{16}O_7N_2$ C 40,9 — H 6,1 — O 42,4 — N 10,6 — M. G. 264.
- 1) **Kaseansäure**. Sm. 192°. $Cu_2 + 3H_2O$, HCl (B. 37, 1597 C. 1904 [1] 1449; H. 42, 289 C. 1904 [2] 958).
- $C_9H_{16}O_7S$ 1) **Aethylidenmalonäthylesterhydrosulfonsäure**. K, Ba (B. 37, 4057 C. 1904 [2] 1649).

- $C_9H_{16}O_8N_4$ C 33,3 — H 4,9 — O 44,4 — N 17,3 — M. G. 324.
 1) Säure (aus d. Verb. $C_{17}H_{40}O_{13}N_4$). Sm. 229°. 4HCl, Cu + 2H₂O (B. 36, 1509 C. 1903 [1] 1302).
- $C_9H_{16}NCl$ 6) 1-Chlor-3-Dimethylamido-2,3,4,5-Tetrahydro-R-Hepten. (2HCl, PtCl₄) (A. 326, 10 C. 1903 [1] 778).
- $C_9H_{16}NJ$ *2) Jodmethylat d. Tropidin. Sm. noch nicht bei 300° (A. 326, 20 C. 1903 [1] 778).
- $C_9H_{17}ON$ *4) 5-Oximido-1,1,3-Trimethylhexahydrobenzol. Sm. 84—85° (C. 1904 [2] 653).
 *11) α -Methyltropin (3-Dimethylamido-1-Oxy-2,3,4,5-Tetrahydro-R-Hepten). Sd. 247—248°. (HCl, AuCl₃) (A. 326, 9 C. 1903 [1] 778).
 *23) 4-Oximido-1,1,3-Trimethylhexahydrobenzol. Sm. 108—109° (C. 1904 [2] 653).
 *24) α -Isooxim d. 4-Keto-1,1,3-Trimethylhexahydrobenzol. Sm. 115 bis 116° (C. 1904 [2] 654).
 *26) 2-Oximido-1,1,4-Trimethylhexahydrobenzol (Pulenonoxim). Sm. 94 bis 95°; Sd. 117°₁₂ (A. 329, 100 C. 1903 [2] 1071).
 *27) Pulenonisoxxim. Sm. 96—97°; Sd. 145—150°₂₇ (A. 329, 100 C. 1903 [2] 1071).
 33) β -Isooxim d. 4-Keto-1,1,3-Trimethylhexahydrobenzol. Sm. 106 bis 108° (C. 1904 [2] 654).
 34) α -Isooxim d. 5-Keto-1,1,3-Trimethylhexahydrobenzol. Sm. 111 bis 112° (C. 1904 [2] 654).
 35) β -Isooxim d. 5-Keto-1,1,3-Trimethylhexahydrobenzol. Sm. 82—84° (C. 1904 [2] 654).
 36) 2-Oximido-1-Methyl-3-Isopropyl-R-Pentamethylen. Sm. 79° (B. 37, 238 C. 1904 [1] 726).
 37) Pseudomethyltropin. Sd. 242—244° (A. 326, 15 C. 1903 [1] 778).
 38) Nitril d. γ -Oxybutteramyläthersäure. Sd. 108—110°₁₂ (C. r. 136, 96 C. 1903 [1] 455).
- $C_9H_{17}ON_3$ 15) α -Semicarbazon- α -Hexahydrophenyläthan. Sm. 175° (Bl. [3] 29, 1051 C. 1903 [2] 1437).
 16) 3-Semicarbazonmethyl-1-Methylhexahydrobenzol. Sm. 158—159° (B. 37, 852 C. 1904 [1] 1146).
 17) 5-Semicarbazon-1,1,2-Trimethyl-R-Pentamethylen. Sm. 210—212° (C. r. 136, 1143 C. 1903 [1] 1410).
 18) 2-Semicarbazon-1,1,3-Trimethyl-R-Pentamethylen. Sm. 150—151° (A. 329, 94 C. 1903 [2] 1071).
- $C_9H_{17}O_2N$ 24) γ -Oximido- δ -Ketononan. Sm. 33—34; Sd. 131—132° (Bl. [3] 31, 1168 C. 1904 [2] 1701).
 25) 3-Acetyl-4,4,6-Trimethyltetrahydro-1,3-Oxazin. Sd. 235—237° (HCl, AuCl₃) (M. 25, 832 C. 1904 [2] 1239).
 26) 2,2,5,5-Tetramethyltetrahydropyrrol-3-Carbonsäure + H₂O. Sm. 220° u. Zers. HCl, (2HCl, PtCl₄) (B. 36, 3359 C. 1903 [2] 1185).
 27) Säure (aus Pinophoronpiperidon). Sm. 204—206° (B. 37, 240 C. 1904 [1] 726).
 28) Gem. Imid d. Buttersäure u. Isovaleriansäure. Sm. 88° (C. r. 137, 326 C. 1903 [2] 712).
 29) Gem. Imid d. Isobuttersäure u. Valeriansäure. Sm. 84° (C. r. 137, 326 C. 1903 [2] 712).
 30) Gem. Imid d. Isobuttersäure u. Isovaleriansäure. Sm. 94° (C. r. 137, 326 C. 1903 [2] 712).
- $C_9H_{17}O_2N_3$ 5) Di[Methylamid] d. 1-Methyltetrahydropyrrol-2-Carbonsäure. Sm. 122,5—123° (A. 326, 109 C. 1903 [1] 843).
- $C_9H_{17}O_2Br$ 8) α -Bromoktan- α -Carbonsäure. Fl. (C. r. 138, 698 C. 1904 [1] 1066).
- $C_9H_{17}O_3N$ *2) γ -Oximido- β -Methylheptan- ζ -Carbonsäure. Sm. 76—77° (75°) (A. 327, 142 C. 1903 [1] 1412; B. 37, 238 C. 1904 [1] 726).
 *10) Aethylester d. ϵ -Oximido- β -Methylpentan- ϵ -Carbonsäure. Sd. 156°₁₈ (Bl. [3] 31, 1074 C. 1904 [2] 1457).
 12) Isobutylester d. α -Oximidovaleriansäure. Sm. 16°; Sd. 152°₁₅ (Bl. [3] 31, 1072 C. 1904 [2] 1457).
- $C_9H_{17}O_3N_3$ 4) ϵ -Semicarbazon- β -Methylhexan- β -Carbonsäure. Sm. 163° (A. 329, 93 C. 1903 [2] 1071).

- $C_9H_{17}O_3N_3$ 5) Aethylester d. δ -Semicarbazon- β -Methylbutan- δ -Carbonsäure. Sm. 158—159° (*Bl.* [3] 31, 1151 *C.* 1904 [2] 1707).
 6) $\beta\beta$ -Dimethylpropylester d. α -Semicarbazonpropionsäure. Sm. 168° (*C. r.* 138, 985 *C.* 1904 [1] 1398).
 7) β -Methylbutylester d. α -Semicarbazonpropionsäure. Sm. 151,5° (*M.* 25, 1098 *C.* 1904 [2] 1698).
- $C_9H_{17}NBr_2$ *4) Brommethylat d. Bromtropan (*A.* 326, 35 *C.* 1903 [1] 779).
- $C_9H_{18}O_3N_2$ 18) $\gamma\delta$ -Dioximidononan. Sm. 158—158,5° (*Bl.* [3] 31, 1168 *C.* 1904 [2] 1701).
 19) Dipropylacetylarnstoff. Sm. 192,5° (*A.* 335, 367 *C.* 1904 [2] 1382).
 20) Ureid d. Dipropylelessigsäure (Dipropylacetylarnstoff). Sm. 192,5° (*D. R. P.* 144431 *C.* 1903 [2] 813).
- $C_9H_{18}O_3N_2$ 3) Base (aus Methylenbisacetylacetone). Sm. 47°; Sd. 120°. (2HCl, PtCl₄) (*B.* 36, 2158 *C.* 1903 [2] 370).
 4) *r*- α -[α -Amidoisocapronyl]amidopropionsäure (*r*-Leucylalanin). Sm. 245° u. Zers. (*B.* 37, 3105 *C.* 1904 [2] 1210).
 5) Aethylester d. *r*- α -Ureido- γ -Methylvaleriansäure. Sm. 92—93° (*Bl.* [3] 31, 1181 *C.* 1904 [2] 1710).
- $C_9H_{18}O_4N_2$ *1) $\alpha\alpha$ -Dinitrononan. K (*J. pr.* [2] 67, 139 *C.* 1903 [1] 865; *G.* 33 [1] 416 *C.* 1903 [2] 551; *G.* 34 [2] 54 *C.* 1904 [2] 693).
 3) Dimethylglykoseureid. Sm. 157° u. Zers. (*R.* 22, 65 *C.* 1903 [1] 1081).
 2) Phoronhydrodisulfonsäure. Na₂ + 2½H₂O, Ba + 4H₂O (*B.* 37, 4047 *C.* 1904 [2] 1648).
- $C_9H_{18}NJ$ 4) Jodmethylat d. *i*- ϵ -Conicein. Sm. 185—186° (*B.* 37, 1891 *C.* 1904 [2] 238).
- $C_9H_{19}ON$ *19) Amid d. Oktan- α -Carbonsäure. Sm. 98—99° (*B.* 36, 2549 *C.* 1903 [2] 654).
 *29) 4-Dimethylamido-1-Oxy-*R*-Heptamethylen. Sd. 251° (*A.* 326, 7 *C.* 1903 [1] 777).
 34) β -Oximido- δ -Methyloktan. Fl. (*Soc.* 81, 1595 *C.* 1903 [1] 16, 132).
 35) 4,4,6-Trimethyl-3-Aethyltetrahydro-1,3-Oxazin. Sd. 176—180°. (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (*M.* 25, 843 *C.* 1904 [2] 1240).
 36) Dipropylamid d. Propionsäure. Sd. 227° (*B.* 36, 3526 *C.* 1903 [2] 1326).
 37) Diisobutylamid d. Ameisensäure. Sd. 109—110°₁₅ (*B.* 36, 2476 *C.* 1903 [2] 559).
- $C_9H_{19}ON_3$ 2) α -Semicarbazonoktan. Sm. 101° (*C. r.* 138, 699 *C.* 1904 [1] 1066).
 3) β -Semicarbazonoktan. Sm. 121° (122—123°) (*C. r.* 136, 755 *C.* 1903 [1] 1019; *Bl.* [3] 31, 1157 *C.* 1904 [2] 1707).
 4) γ -Semicarbazonoktan. Sm. 117—117,5° (*Bl.* [3] 31, 1158 *C.* 1904 [2] 1707).
 5) δ -Semicarbazon- β -Methylheptan. Sm. 124° (*Bl.* [3] 31, 1157 *C.* 1904 [2] 1707).
 6) ϵ -Semicarbazon- β -Methylheptan. Sm. 132—133° (*Bl.* [3] 31, 1158 *C.* 1904 [2] 1708).
 7) δ -Semicarbazonmethylheptan. Sm. 100—101° (*Bl.* [3] 31, 306 *C.* 1904 [1] 1133).
 8) 5 Semicarbazon-4-Isopropyl-1-Methyl-*R*-Pentamethylen. Sm. 203 bis 204° (*C.* 1904 [2] 1045).
- $C_9H_{19}OBr$ 1) Amylätber d. δ -Brom- α -Oxybutan. Sd. 114—115°₁₈ (*C. r.* 138, 976 *C.* 1904 [1] 1400).
- $C_9H_{19}OJ$ 1) Amylätber d. δ -Jod- α -Oxybutan. Sd. 128—129°₁₈ (*C. r.* 138, 976 *C.* 1904 [1] 1400).
- $C_9H_{19}O_2N$ 8) Betain d. α -Triäthylamidopropionsäure. Sm. 90—92°. (HCl, AuCl₃) (*B.* 36, 4192 *C.* 1904 [1] 263).
 9) Aethylester d. β -Diäthylamidopropionsäure. Sd. 192°₇₅₃ (*J. pr.* [2] 68, 347 *C.* 1903 [2] 1318).
 10) Aethylester d. Dipropylamidoameisensäure. Sd. 97°₂₀ (*B.* 36, 2287 *C.* 1903 [2] 563).
- $C_9H_{19}O_3Br$ *1) Triäthylätber d. β -Brom- $\alpha\alpha\gamma$ -Trioxypropan (*B.* 36, 3670 *C.* 1903 [2] 1313).
- $C_9H_{19}N_3J$ 1) Nitril d. α -Triäthyljodammoniumpropionsäure. Sm. 178—179° u. Zers. (*B.* 36, 4191 *C.* 1904 [1] 263).

- $C_9H_{20}ON_2$ 11) α -norm. Butyl- β -[d-sec. Butyl]harnstoff. Sm. 47° (Ar. 242, 70 C. 1904 [1] 999).
 12) α -[r-sec. Butyl]- β -[d-sec. Butyl]harnstoff. Sm. 132° (Ar. 242, 71 C. 1904 [1] 999).
- $C_9H_{20}O_2N_2$ *1) Triacetondihydroxylamin. Sm. 112 — 114° (B. 36, 657 Anm. C. 1903 [1] 762).
- $C_9H_{21}O_2B$ *2) Triisopropylester d. Borsäure. Sd. 140° (B. 36, 2221 C. 1903 [2] 420).
- $C_9H_{20}N_2S$ *8) s-rd-Di[sec. Butyl]thioharnstoff. Sm. 113° (Ar. 242, 60 C. 1904 [1] 998).
 9) α -[norm. Butyl]- β -[d-sec. Butyl]thioharnstoff. Sm. 32° (Ar. 242, 60 C. 1904 [1] 998).
 10) α -[d-sec. Butyl]- β -[tert. Butyl]thioharnstoff. Sm. 132° (Ar. 242, 60 C. 1904 [1] 998).
 11) α -Isobutyl- β -[d-sec. Butyl]thioharnstoff. Sm. 51° (Ar. 242, 60 C. 1904 [1] 998).
 12) $\alpha\alpha$ -Diäthyl- β -[d-sec. Butyl]thioharnstoff. Sm. 60 — $60,5^\circ$ (Ar. 242, 61 C. 1904 [1] 998).
- $C_9H_{21}ClS$ *1) Methyläthyl-sec. Hexylsulfinchlorid (J. pr. [2] 66, 460 C. 1903 [1] 561).
 *2) Methyläthylisobutylsulfinchlorid. + $4HgCl_2$ (J. pr. [2] 66, 463 C. 1903 [1] 561).
- $C_9H_{23}O_2N$ 2) Methylhydroxyd d. β -Dimethylamido- δ -Oxy- β -Methylpentan. (2 Chlorid + $AuCl_3$). Pikrat (M. 25, 145 C. 1904 [1] 866).
- $C_9H_{24}N_2Cl_2$ *1) Hexamethyltrimethylen-diammoniumchlorid. + $2HgCl_2$ (J. pr. [2] 66, 519 C. 1903 [1] 561).
- $C_9H_{24}N_2J_6$ 1) Hexamethyltrimethylen-diammoniumtrijodid. Sm. 205° (J. pr. [2] 67, 352 C. 1903 [1] 1298).
- $C_9H_{24}N_2J_{10}$ 1) Hexamethyltrimethylen-diammoniumpentajodid. Sm. 150° (J. pr. [2] 67, 352 C. 1903 [1] 1297).
- $C_9H_{24}N_2J_{18}$ 1) Hexamethyltrimethylen-diammoniumenneajodid. Sm. 100° (J. pr. [2] 67, 352 C. 1903 [1] 1297).

— 9 IV —

- $C_9H_4O_6N_3Cl_3$ *1) p-Dinitro-2-[$\beta\beta\beta$ -Trichloräthyliden]amidobenzol-1-Carbonsäure. Sm. 187° (B. 35, 3899 C. 1903 [1] 29).
- $C_9H_5ONBr_2$ 4) s,p-Dibrom-2-Oxychinolin. Sm. 188° (J. pr. [2] 68, 102 C. 1903 [2] 445).
- $C_9H_5O_2NCl_2$ 4) Nitril d. 3,5-Dichlor-2-Acetoxybenzol-1-Carbonsäure. Sm. 78° (B. 37, 4029 C. 1904 [2] 1718).
- $C_9H_5O_2N_2Cl$ 12) 2-Chlor-8-Nitrochinolin. Sm. 152° (J. pr. [2] 68, 101 C. 1903 [2] 444).
- $C_9H_5O_2N_2Br_3$ 1) p-Tribrom-3-Nitro-2-Methylindol. Sm. 290° u. Zers. (G. 34 [2] 63 C. 1904 [2] 710).
- C_9H_6ONCl 17) Nitril d. β -Oxy- α -[4-Chlorphenyl]akrylsäure. Sm. 159 — 161° (J. pr. [2] 67, 393 C. 1903 [1] 1357).
- $C_9H_6ON_2Br_2$ 2) 6,8-Dibrom-4-Keto-2-Methyl-3,4-Dihydro-1,3-Benziazin. Zers. oberh. 300° (C. 1903 [2] 1194).
- $C_9H_6O_2NCl$ *2) Nitril d. 5-Chlor-2-Acetoxybenzol-1-Carbonsäure. Sm. 79 — 80° (B. 37, 4026 C. 1904 [2] 1717).
 4) Nitril d. 3-Chlor-4-Acetoxybenzol-1-Carbonsäure. Sm. 89 — 90° (B. 37, 4034 C. 1904 [2] 1719).
- $C_9H_6O_2N_2Cl_2$ 1) p-Dichlor-2-Cyanmethylenamidobenzol-1-Carbonsäure. Sm. 222 bis 223° (D. R. P. 148615 C. 1904 [1] 1046).
- $C_9H_6O_2N_2S$ 3) 5-Phenyl-1,2,3-Thiodiazol-4-Carbonsäure. Sm. 157° u. Zers. (A. 333, 5 C. 1904 [2] 780).
- $C_9H_6O_2N_3Cl$ 3) 2-[4-Chlorphenyl]-1,2,3,6-Oxtriazin-5-Carbonsäure. Sm. 145° u. Zers. (Soc. 83, 1249 C. 1903 [2] 1422).
- $C_9H_6O_2N_3Cl$ 1) Nitril d. 5-Chlor-3,6-Dinitro-2-Oxybenzoläthyläther-1-Carbonsäure. Sm. 65° (R. 21, 426 C. 1903 [1] 511).
- $C_9H_6N_2Br_2S$ 1) 6,8-Dibrom-4-Thiocarbonyl-2-Methyl-3,4-Dihydro-1,3-Benziazin. Sm. noch nicht bei 290° (C. 1903 [2] 1195).
- $C_9H_7ONS_2$ *1) 2-Thiocarbonyl-4-Keto-3-Phenyltetrahydrothiazol. Sm. 192 bis 193° (M. 24, 500 C. 1903 [2] 836).

- $C_9H_7ON_2Cl_3$ 2) Nitril d. 3- $[\beta\beta\beta$ -Trichlor- α -Oxyäthyl]amidobenzol-1-Carbonsäure. Sm. 102—103° u. Zers. (C. 1904 [2] 103).
 $C_9H_7ON_2Br$ 2) Nitril d. 4-Brombenzoylamidoessigsäure. Sm. 174° (B. 36, 1646 C. 1903 [2] 32).
 $C_9H_7ON_2S_2$ 2) Phenylamid d. Isorhodanformylthioameisensäure. Sm. 172° (Soc. 83, 89 C. 1903 [1] 230, 447).
 $C_9H_7OClBr_2$ 2) Aldehyd d. α -Chlor- $\alpha\beta$ -Dibrom- β -Phenylpropionsäure. Fl. (C. r. 136, 1073 C. 1903 [1] 1345).
 $C_9H_7O_2NBr_2$ 2) 4, 6-Dibrom-5-Oxy-1, 3-Dimethylbenzoxazol. Sm. 221—222° (B. 37, 1427 C. 1904 [1] 1418).
 $C_9H_7O_2N_2Cl$ 3) p-Chlor-2-Cyanmethyamidobenzol-1-Carbonsäure. Sm. 199—200° (D.R.P. 148615 C. 1904 [1] 1045).
 $C_9H_7O_2N_2Br$ 5) p-Brom-2-Cyanmethyamidobenzol-1-Carbonsäure. Sm. 209—210° (D.R.P. 148615 C. 1904 [1] 1045).
 $C_9H_7O_2ClBr_2$ *1) α -Chlor- $\alpha\beta$ -Dibrom- β -Phenylpropionsäure. Sm. 138° (C. r. 136, 1073 C. 1903 [1] 1345).
 $C_9H_7O_3N_2Cl$ *4) Nitril d. 5-Chlor-6-Nitro-2-Oxybenzoläthyläther-1-Carbonsäure (R. 21, 426 C. 1903 [1] 511).
 $C_9H_7O_3N_2Cl_3$ 2) Dimethylamid d. 2, 4, 6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 111,25° (R. 21, 392 C. 1903 [1] 152).
 3) 2, 5, 6-Trichlor-4-Nitro-3-Methylphenylamid d. Essigsäure. Sm. noch nicht bei 200° (Soc. 83, 334 C. 1903 [1] 870).
 $C_9H_7O_4NCl_2$ 1) p-Dichlorphenylamidoessigsäure-2-Carbonsäure. Sm. 237—238° (D.R.P. 148615 C. 1904 [1] 1045).
 $C_9H_7O_5NCl_2$ 1) Äthyl-4, 6-Dichlor-2-Nitrophenylester d. Kohlensäure. Sm. 38—39° (Ann. 32, 30 C. 1904 [2] 697).
 C_9H_7NBrJ 1) Chinolinbromojodid. Sm. 138—140° (C. r. 136, 1471 C. 1903 [2] 296).
 $C_9H_7N_4S_3P$ 1) Phosphortrithiocyanat + Anilin. Sm. 116—117° (Soc. 85, 358 C. 1904 [1] 1407).
 C_9H_8ONCl 3) 2-Chlorbenzimidomethyläther. HCl (Soc. 83, 768 C. 1903 [2] 200, 437).
 $C_9H_8ONCl_3$ 13) 4-Methylphenylamid d. Trichloressigsäure. Sm. 113° (A. 332, 264 C. 1904 [2] 699).
 $C_9H_8ON_2S$ 8) 1-Acetylamidobenzthiazol. Sm. 186—187° (A. 212, 329; B. 36, 3136 C. 1903 [2] 1071). — IV, 682.
 $C_9H_8ON_2Se$ 1) Phenylamid d. Selencyanessigsäure. Sm. 129° (Ar. 241, 200 C. 1903 [2] 103).
 C_9H_8OClBr 2) Chlorid d. α -Brom- β -Phenylpropionsäure. Sd. 132—133°₁₂ (B. 37, 3065 C. 1904 [2] 1207).
 $C_9H_8O_2NCl$ 3) Aldehyd d. 6-Chlor-3-Acetylamidobenzol-1-Carbonsäure. Sm. 163—164° (M. 25, 368 C. 1904 [2] 322).
 $C_9H_8ONCl_3$ 3) $\beta\beta\beta$ -Trichlor- α -Oxyäthyläther d. anti-Benzaldoxim (Chloralbenzaldoxim). Sm. 62° (D.R.P. 66877). — *III, 34.
 $C_9H_8O_2N_4Cl_4$ 1) 2, 6-Diketo-7-Chlormethyl-8-Trichlormethyl-1, 3-Dimethylpurin. Sm. 204—205° (D.R.P. 146715 C. 1903 [2] 1485).
 $C_9H_8O_3NCl$ *5) 3-Chlorbenzoylamidoessigsäure (C. 1903 [1] 412).
 14) 2-Chlorbenzoylamidoessigsäure. Fl. Ca (C. 1903 [1] 412).
 15) 4-Chlorbenzoylamidoessigsäure + H₂O. Sm. 143° (C. 1903 [1] 412).
 $C_9H_8O_3NBr$ *2) 4-Brombenzoylamidoessigsäure. Sm. 162° (B. 36, 1647 C. 1903 [2] 32).
 7) 2-Brombenzoylamidoessigsäure + H₂O. Sm. 153° (C. 1903 [1] 412).
 8) 3-Brombenzoylamidoessigsäure + H₂O. Sm. 183° (C. 1903 [1] 412).
 9) Äthylester d. 4-Brom-2-Nitrosobenzol-1-Carbonsäure. Sm. 155° (B. 37, 1872 C. 1904 [1] 1601).
 $C_9H_8O_3NJ$ *2) 3-Jodbenzoylamidoessigsäure (H. 37, 436 C. 1903 [1] 1150).
 3) 2-Jodbenzoylamidoessigsäure. Ba (H. 37, 435 C. 1903 [1] 1150).
 $C_9H_8O_3N_2Cl_2$ 1) p-Dichlor-4-Nitro-3-Methylphenylamid d. Essigsäure. Sm. 181—183° (Soc. 83, 334 C. 1903 [1] 870).
 $C_9H_8O_3N_3Cl$ 2) Nitril d. 5-Chlor-3-Nitro-6-Amido-2-Oxybenzoläthyläther-1-Carbonsäure. Sm. 157° (R. 21, 427 C. 1903 [1] 511).

- $C_9H_5O_3N_4S$ 1) 1-Phenylazoimidazol-1⁴-Sulfonsäure. Zers. oberh. 270—280° (*B.* 37, 699 *C.* 1904 [1] 1562).
- $C_9H_5O_4NCl$ 8) *p*-Chlorphenylamidoessigsäure-2-Carbonsäure. Sm. 210—215° (*D.R.P.* 148615 *C.* 1904 [1] 1045).
- 9) Acetat d. 5-Chlor-3-Nitro-4-Oxy-1-Methylbenzol. Sm. 95° (*A.* 328, 312 *C.* 1903 [2] 1246).
- $C_9H_5O_4NBr$ 14) *p*-Bromphenylamidoessigsäure-2-Carbonsäure. Sm. 228° (*D.R.P.* 148615 *C.* 1904 [1] 1045).
- $C_9H_5O_4N_2S$ 1) O-Nitroäther d. 3-Nitrobenzoylimidomerkaptooxymethan. Sm. 120° (*C.* 1904 [1] 1559).
- $C_9H_5O_5NCl$ 8) Aethyl-4-Chlor-2-Nitrophenylester d. Kohlensäure. Sm. 60° (*Am.* 32, 23 *C.* 1904 [2] 696).
- 9) Aethyl-6-Chlor-2-Nitrophenylester d. Kohlensäure. Fl. (*Am.* 32, 26 *C.* 1904 [2] 696).
- $C_9H_5O_5NBr$ 4) Aethyl-4-Brom-2-Nitrophenylester d. Kohlensäure. Sm. 76° (*Am.* 32, 28 *C.* 1904 [2] 697).
- $C_9H_5O_5N_2Br_2$ 2) Methyläther d. $\beta\beta$ -Dibrom- β -Nitro- α -Oxy- α -[4-Nitrophenyl]-äthan. Sm. 160—160,5° (*A.* 325, 16 *C.* 1903 [1] 287).
- $C_9H_5O_5Br_2S$ 1) $\alpha\beta$ -Dibrom- β -[4-Sulfofenyl]propionsäure + 2H₂O. Na + 3H₂O, Na₂ + 4H₂O, Ba + 4H₂O, Cu + 2H₂O, Anilinsalz, Dimethyl-anilinsalz, Diäthylanilinsalz (*C.* 1903 [2] 438).
- $C_9H_5O_6NBr$ 1) Aethylcarbonat d. 5-[oder 6]-Brom-4-Nitro-1,2,3-Trioxybenzol. Sm. 172° (*B.* 37, 114 *C.* 1904 [1] 585).
- $C_9H_5ONS_2$ *1) Methyl ester d. Benzoylamidodithioameisensäure. Sm. 135° (*Bl.* [3] 29, 51 *C.* 1903 [1] 446).
- $C_9H_5ON_3S$ *5) 3-Merkapto-5-Keto-4-Methyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 203°. Ag (*B.* 37, 624 *C.* 1904 [1] 957; *B.* 37, 2337 *C.* 1904 [2] 315).
- 8) Methyläther d. 3-Merkapto-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 178° (*B.* 36, 3152 *C.* 1903 [2] 1074).
- 9) Amid d. Benzoylmethylazothiocarbonsäure. Sm. 170° (*B.* 36, 4127 *C.* 1904 [1] 295).
- $C_9H_5O_2NBr_2$ 3) Methyläther d. 2,6-Dibrom-4-Acetylamido-1-Oxybenzol. Sm. 206° (*Soe.* 81, 1479 *C.* 1903 [1] 23, 144).
- $C_9H_5O_2N_2J$ 1) α -Acetyl- β -[2-Jodphenyl]harnstoff. Sm. 182° (*M.* 25, 961 *C.* 1904 [2] 1638).
- 2) α -Acetyl- β -[3-Jodphenyl]harnstoff. Sm. 201° (*M.* 25, 961 *C.* 1904 [2] 1638).
- 3) α -Acetyl- β -[4-Jodphenyl]harnstoff. Sm. 248° (*M.* 25, 958 *C.* 1904 [2] 1638).
- $C_9H_5O_2N_4Cl_3$ 1) 2,6-Diketo-8-Trichlormethyl-1,3,7-Trimethylpurin. Sm. 182 bis 184° (*D.R.P.* 146714 *C.* 1903 [2] 1484; *D.R.P.* 153121 *C.* 1904 [2] 625).
- $C_9H_5O_2BrS$ 1) α -Merkaptopropion-4-Bromphenyläthersäure. Sm. 112° (*C.* 1903 [2] 1430).
- 2) β -Merkaptopropion-4-Bromphenyläthersäure. Sm. 115—116° (*C.* 1903 [2] 1430).
- $C_9H_5O_3NCl_2$ 1) Aethylester d. 3,5-Dichlor-2-Oxyphenylamidoameisensäure. Sm. 125° (*Am.* 32, 31 *C.* 1904 [2] 697).
- 2) Aethyl-4,6-Dichlor-2-Amidophenylester d. Kohlensäure. HCl (*Am.* 31, 501 *C.* 1904 [2] 95; *Am.* 32, 30 *C.* 1904 [2] 697).
- $C_9H_5O_3NBr_2$ 9) Methyläther d. $\beta\beta$ -Dibrom- β -Nitro- α -Oxy- α -Phenyläthan. Sm. 83° (*A.* 335, 10 *C.* 1903 [1] 287).
- $C_9H_5O_3NS$ *6) Aethylamid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 94° (*Am.* 30, 285 *C.* 1903 [2] 1120; *B.* 37, 3254 *C.* 1904 [2] 1031).
- $C_9H_5O_3N_2Cl$ *7) Aethyläther d. α -Chlorimido- α -Oxy- α -[3-Nitrophenyl]methan. Sm. 61° (*Am.* 29, 314 *C.* 1903 [1] 1167).
- *8) Dimethylamid d. 5-Chlor-2-Nitrobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
- *9) Dimethylamid d. 4-Chlor-3-Nitrobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
- *10) Dimethylamid d. 6-Chlor-3-Nitrobenzol-1-Carbonsäure (*C.* 1903 [2] 1174).

- $C_9H_7O_3N_2Cl$ 12) Aldehyd d. 6-Chlor-3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 122—123° (125°) (D.R.P. 90382; *B.* 37, 865 *C.* 1904 [1] 1207). — *III, 14.
- $C_9H_7O_3N_2Br$ *7) Äthyläther d. α -Bromimido- α -Oxy- α -[3-Nitrophenyl]methan. Sm. 71°; Zers. bei 130° (*Am.* 29, 316 *C.* 1903 [1] 1167).
- $C_9H_7O_4N_2Cl$ 6) Methyläther d. 4-Chlor-5-Nitro-2-Acetylamido-1-Oxybenzol. Sm. 193° (D.R.P. 137956 *C.* 1903 [1] 113).
- $C_9H_7O_3N_2Br$ 1) Methyläther d. β -Brom- β -Nitro- α -Oxy- α -[4-Nitrophenyl]äthan. Sm. 126,5—127° (*A.* 325, 15 *C.* 1903 [1] 287).
- $C_9H_7O_5BrS$ 4) β -[4-Bromphenyl]sulfon- α -Oxypropionsäure. Sm. 149° (*C.* 1903 [2] 1429).
- $C_9H_7O_7NS$ *1) 1-Äthylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. $K + H_2O$, Ba + $4H_2O$ (*Am.* 30, 389 *C.* 1904 [1] 276).
- 4) Dimethylester d. 2-Nitrobenzol-1-Carbonsäure-4-Sulfonsäure. Sm. 86—87° (*M.* 23, 1139 *C.* 1903 [1] 397).
- $C_9H_9N_2ClS$ 1) Chlormethylat d. 5-Phenyl-1,2,3-Thiodiazol. 2 + $PtCl_4$, + $AuCl_3$ (*A.* 333, 14 *C.* 1904 [2] 781).
- $C_9H_9N_2JS$ 1) Jodmethylat d. 5-Phenyl-1,2,3-Thiodiazol + H_2O . Sm. 136° u. Zers. (*A.* 333, 13 *C.* 1904 [2] 780).
- $C_9H_9N_2JS_2$ 1) Methyläther d. 2-Jod-5-Merkapto-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 151° (*J. pr.* [2] 67, 247 *C.* 1903 [1] 1264).
- $C_9H_{10}ONCl$ *13) 3-Chlor-2-Methylphenylamid d. Essigsäure. Sm. 156° (*B.* 37, 1019 *C.* 1904 [1] 1202).
- *38) Dimethylamid d. 3-Chlorbenzol-1-Carbonsäure (*C.* 1903 [2] 1174).
- *43) Äthylchloramid d. Benzolcarbonsäure. Sm. 53,5° (*Am.* 29, 309 *C.* 1903 [1] 1166).
- 49) 2-Chlorbenzimidäthyläther. HCl (*Soc.* 83, 767 *C.* 1903 [2] 200, 437).
- 50) α - oder β -Chloräthyl-4-Amidophenylketon. Sm. 98° (D.R.P. 105199 *C.* 1900 [1] 240). — *III, 113.
- 51) Aldehyd d. 2-Chlor-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 82° (*B.* 37, 864 *C.* 1904 [1] 1207).
- $C_9H_{10}ONBr$ 26) α - oder β -Bromäthyl-4-Amidophenylketon. Sm. 110—111° (D.R.P. 105199 *C.* 1900 [1] 240). — *III, 114.
- 27) Dimethylamid d. 4-Brombenzol-1-Carbonsäure. Sm. 72° (*B.* 37, 2816 *C.* 1904 [2] 649).
- 28) 3-Brom-2-Methylphenylamid d. Essigsäure. Sm. 158° (*B.* 37, 1022 *C.* 1904 [1] 1203).
- $C_9H_{10}ONJ$ 2) 3-Jod-2-Methylphenylamid d. Essigsäure. Sm. 166° (*B.* 37, 1024 *C.* 1904 [1] 1203).
- $C_9H_{10}ON_2S_2$ 2) Methylester d. β -Phenylthioureidothiolameisensäure. Sm. 157 bis 158° (*Am.* 30, 176 *C.* 1903 [2] 872).
- $C_9H_{10}O_2NCl$ *2) Methyläther d. 5-Chlor-2-Acetylamido-1-Oxybenzol. Sm. 150° (*J. pr.* [2] 67, 158 *C.* 1903 [1] 871).
- *6) Methyläther d. 4-Chlor-2-Acetylamido-1-Oxybenzol. Sm. 104° (D.R.P. 137956 *C.* 1903 [1] 113).
- $C_9H_{10}O_2N_2S$ 8) Methylester d. Phenylthiopseudoallophansäure. Sm. 166—167°.
- HCl (*Soc.* 83, 559 *C.* 1903 [1] 1123, 1306).
- 9) Äthylcyanamid d. Benzolsulfonsäure. Sd. 195°₁₅ (*B.* 37, 2811 *C.* 1904 [2] 593).
- $C_9H_{10}O_2N_2Se$ 1) Phenylamid d. Carbaminselenessigsäure. Sm. 118—119° (*Ar.* 241, 202 *C.* 1903 [2] 103).
- $C_9H_{10}O_2N_3J$ 1) 3-Jodmethylat d. 6-Nitro-1-Methylbenzimidazol. Sm. 259°.
- + J_2 (*B.* 36, 3968 *C.* 1904 [1] 177).
- $C_9H_{10}O_2N_4Cl_2$ 1) 2,6-Diketo-8-Dichlormethyl-1,3,7-Trimethylpurin. Sm. 230 bis 232° (D.R.P. 146714 *C.* 1903 [2] 1484).
- $C_9H_{10}O_3NCl$ 3) Äthylester d. 3-Chlor-2-Oxyphenylamidoameisensäure. Sm. 92—93° (*Am.* 32, 27 *C.* 1904 [2] 697).
- 4) Äthylester d. 5-Chlor-2-Oxyphenylamidoameisensäure. Sm. 136—137° (*Am.* 32, 24 *C.* 1904 [2] 696).
- 5) Äthyl-4-Chlor-2-Amidophenylester d. Kohlensäure. HCl , $(2HCl, PtCl_4)$ (*Am.* 31, 501 *C.* 1904 [2] 95; *Am.* 32, 23 *C.* 1904 [2] 696).

- $C_9H_{10}O_3NCl$ 6) Aethyl-6-Chlor-2-Amidophenylester d. Kohlensäure. HCl (*Am.* 31, 501 *C.* 1904 [2] 95; *Am.* 32, 27 *C.* 1904 [2] 696).
- $C_9H_{10}O_3NBr$ 3) Methyläther d. β -Brom- β -Nitro- α -Oxy- α -Phenyläthan. Sd. 159°₁₆. K (A. 325, 8 *C.* 1903 [1] 287).
- 4) Aethylester d. 5-Brom-2-Oxyphenylamidoameisensäure. Sm. 140—142° (*Am.* 32, 28 *C.* 1904 [2] 697).
- $C_9H_{10}O_3N_2S$ 5) Aethyl-4-Brom-2-Amidophenylester d. Kohlensäure. HCl (*Am.* 31, 501 *C.* 1904 [2] 95; *Am.* 32, 28 *C.* 1904 [2] 697).
- 5) Methylester d. 3-Thioureido-4-Oxybenzol-1-Carbonsäure. Sm. 163° (A. 325, 322 *C.* 1903 [1] 770).
- $C_9H_{10}O_3N_3Cl$ 1) 6-Chlor-3-Nitro-4-Dimethylamidobenzaldoxim. Sm. 178° (*B.* 37, 865 *C.* 1904 [1] 1207).
- $C_9H_{10}O_4N_2S$ *2) Phenylsulfonacetylarnstoff. Sm. 225° (*Ar.* 241, 188 *C.* 1903 [2] 103).
- 3) α -Acetyl- β -Phenylsulfonharnstoff. Sm. 155—156° (*B.* 37, 695 *C.* 1904 [1] 1074).
- $C_9H_{10}O_6N_3S$ 3) 5-Nitro-2-Methylphenylsulfonamidoessigsäure. Sm. 178°. Ba (*H.* 43, 68 *C.* 1904 [2] 1607).
- $C_9H_{10}N_2ClJ$ 1) Jodmethylat d. 5-oder-6-Chlor-1-Methylbenzimidazol (*B.* 37, 556 *C.* 1904 [1] 893).
- $C_9H_{10}Cl_2BrJ$ 1) α - β -Dichloräthyl-3-Methylphenyljodoniumbromid. Sm. 166° (A. 327, 285 *C.* 1903 [2] 351).
- $C_9H_{11}ONSe$ 1) Methylphenylamid d. Selenessigsäure. Cu (*Ar.* 241, 218 *C.* 1903 [2] 104).
- $C_9H_{11}ON_2Cl$ 4) 5-Chlor-2-Oxy-1,3-Dimethyl-2,3-Dihydrobenzimidazol. Sm. 106° (*B.* 37, 556 *C.* 1904 [1] 893).
- $C_9H_{11}ON_3Cl_2$ 1) 2-Semicarbazol-1-Dichlormethyl-1-Methyl-1,2-Dihydrobenzol. Sm. 198° (*B.* 35, 4214 *C.* 1903 [1] 161).
- 2) 4-Semicarbazol-1-Dichlormethyl-1-Methyl-1,4-Dihydrobenzol. Sm. 184° (*B.* 35, 4212 *C.* 1903 [1] 161).
- $C_9H_{11}ON_3S$ 4) Methyläther d. α -Phenylamidothioformylimido- α -Amido- α -Oxy-methan (O-Methylthiophenylureidoisoharnstoff). Sm. 131° (*C.* 1904 [2] 29).
- $C_9H_{11}OCl_2J$ 1) α - β -Dichloräthyl-3-Methylphenyljodoniumhydrat. Salze siehe (A. 327, 284 *C.* 1903 [2] 351).
- $C_9H_{11}O_2NS$ 8) Allylamid d. Benzolsulfonsäure. Sm. 40,5—41° (*B.* 36, 2707 *C.* 1903 [2] 829).
- 11) 2-Methylphenylamid d. Aethensulfonsäure. Sm. 64—65° (*B.* 36, 3629 *C.* 1903 [2] 1327).
- 12) 3-Methylphenylamid d. Aethensulfonsäure. Sm. 88° (*B.* 36, 3630 *C.* 1903 [2] 1327).
- 13) 4-Methylphenylamid d. Aethensulfonsäure. Sm. 74° (*B.* 36, 3628 *C.* 1903 [2] 1327).
- $C_9H_{11}O_2N_2Cl$ *1) Methyläther d. 4-Chlor-2-Acetylamido-5-Amido-1-Oxybenzol (D.R.P. 153940 *C.* 1904 [2] 1014).
- $C_9H_{11}O_2N_3S$ 5) α -Methylamid d. α -Phenylhydrazin- α -Thiocarbonsäure- β -Carbonsäure. Sm. 90° (*B.* 37, 2337 *C.* 1904 [2] 315).
- 6) β -Methylamid d. α -Phenylhydrazin- α -Carbonsäure- β -Thiocarbonsäure. Na (*B.* 37, 624 *C.* 1904 [1] 957).
- $C_9H_{11}O_2N_4Cl$ 4) 2,6-Diketo-8-Chlormethyl-1,3,7-Trimethylpurin. Sm. 208—210° (D.R.P. 146714 *C.* 1903 [2] 1484).
- $C_9H_{11}O_2ClSe$ 1) d-Methylphenylselenetinchlorid. 2 + PtCl₄ (*Soc.* 81, 1555 *C.* 1903 [1] 22, 144).
- 2) l-Methylphenylselenetinchlorid. 2 + PtCl₄ (*Soc.* 81, 1555 *C.* 1903 [1] 22, 144).
- $C_9H_{11}O_2BrSe$ 1) Methylphenylselenetinsbromid. Sm. 111° (*Soc.* 81, 1553 *C.* 1903 [1] 22, 144).
- $C_9H_{11}O_2JSe$ 1) i-Methylphenylselenetinjodid. HgJ₂ (*Soc.* 81, 1556 *C.* 1903 [1] 23, 144).
- $C_9H_{11}O_3NBr_2$ 1) Dibromdihydrodamascenin. HBr (*Ar.* 242, 302 *C.* 1904 [2] 456).
- 2) Dibromdihydrodamascenin-S. Sm. 206—208° (*Ar.* 242, 314 *C.* 1904 [2] 457).
- $C_9H_{11}O_3NS$ 7) α -Phenylsulfonamido- β -Ketobutan. Sm. 88—89° (*B.* 37, 2478 *C.* 1904 [2] 419).

- $C_9H_{11}O_4NS$ *16) 2-Aethylamid d. Benzol-1-Carbonsäure-2-Sulfonsäure. $K_2 + 2H_2O$, Ba (*Am.* 30, 286 *C.* 1903 [2] 1121).
- 19) Aldehyd d. 4-Dimethylamidobenzol-1-Carbonsäure-2-Sulfonsäure. Ca (*C.* 1898 [1] 813). — *III, 17.
- 20) Aethylester d. Phenylsulfonamidoameisensäure. Sm. 109°. Na (*B.* 37, 694 *C.* 1904 [1] 1074).
- $C_9H_{11}O_5NS$ 11) α -[4-Methoxybenzoyl]methan- α -Sulfonsäure. Na + H_2O (*B.* 37, 4038 *C.* 1904 [2] 1726).
- 12) 2-Aethylester d. Phenylsulfaminsäure-2-Carbonsäure. Na (*D.R.P.* 147552 *C.* 1904 [1] 129).
- 13) 3-Aethylester d. Phenylsulfaminsäure-3-Carbonsäure. Na (*D.R.P.* 147552 *C.* 1904 [1] 129).
- 14) 4-Aethylester d. Phenylsulfaminsäure-4-Carbonsäure. Na (*D.R.P.* 147552 *C.* 1904 [1] 130).
- $C_9H_{12}ON_2S$ 7) α -[β -Oxyäthyl]- β -Phenylthioharnstoff. Sm. 138° (*B.* 36, 1280 *C.* 1903 [1] 1215).
- $C_9H_{12}O_3N_2S$ 6) sym-Di[Methylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 74° (*Am.* 30, 283 *C.* 1903 [2] 1120).
- 7) uns-Di[Methylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure. Zers. oberh. 330° (*Am.* 30, 284 *C.* 1903 [2] 1121).
- $C_9H_{12}O_4N_2S$ 4) α -[β -Phenylureido]äthan- β -Sulfonsäure. Zers. bei 175°. Ba + $1\frac{1}{2}H_2O$ (*B.* 36, 3343 *C.* 1903 [2] 1175).
- $C_9H_9ON_3Br_2$ 1) 5,6-Dibrom-4-Semicarbazol-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 202° u. Zers. (*Soc.* 83, 123 *C.* 1903 [1] 449).
- $C_9H_9O_2NBr_2$ 1) d-Anhydroecgonindibromid. HCl, (HBr, Br_2) (*B.* 23, 2873; *Ar.* 242, 15 *C.* 1904 [1] 732).
- $C_9H_{13}O_3NS$ 14) α -[4-Methylphenyl]amidoäthan- β -Sulfonsäure. Sm. 254° u. Zers. Ba (*M.* 25, 685 *C.* 1904 [2] 1122).
- $C_9H_{14}ONJ$ 3) Trimethyl-4-Oxyphenylammoniumjodid + H_2O . Sm. 190–201° (*A.* 334, 308 *C.* 1904 [2] 986).
- $C_9H_{14}ON_3Cl$ 1) 6-Chlor-4-Semicarbazol-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 199° u. Zers. (*Soc.* 83, 118 *C.* 1903 [1] 448).
- $C_9H_{14}ON_3Br$ 1) 6-Brom-4-Semicarbazol-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 190° u. Zers. (*Soc.* 83, 121 *C.* 1903 [1] 448).
- $C_9H_{14}O_2NCl$ 2) Chlormethylat d. 2-[$\beta\beta'$ -Dioxyisopropyl]pyridin. + 6HgCl₂, (2 + PtCl₄ + 2H₂O), + AuCl₃ (*B.* 37, 740 *C.* 1904 [1] 1089).
- $C_9H_{14}O_2NBr$ *2) Anhydroecgoninhydrobromid. HBr (*Ar.* 242, 16 *C.* 1904 [1] 732).
- $C_9H_{14}O_4N_2Br_2$ 1) Aethylester d. $\alpha\beta$ -Dibrompropionylamidoacetylamidoessigsäure. Sm. 151–152° (*B.* 37, 2510 *C.* 1904 [2] 427).
- $C_9H_{14}NClS$ 1) Chlormethylat d. 4-Merkapto-2,6-Dimethylpyridin-4-Methyläther. 2 + PtCl₄ (*A.* 331, 258 *C.* 1904 [1] 1223).
- $C_9H_{14}NClSe$ 1) Chlormethylat d. 4-Seleno-2,6-Dimethylpyridin-4-Methyläther. Sm. 210°. 2 + PtCl₄ (*A.* 331, 262 *C.* 1904 [1] 1223).
- $C_9H_{14}NJSe$ 1) Jodmethylat d. 4-Merkapto-2,6-Dimethylpyridin-4-Methyläther. Sm. 236° (*A.* 331, 258 *C.* 1904 [1] 1223).
- $C_9H_{14}NJSe$ 1) Jodmethylat d. 4-Seleno-2,6-Dimethylpyridin-4-Methyläther. Sm. 219° u. Zers. (*A.* 331, 262 *C.* 1904 [1] 1223).
- $C_9H_{15}O_4N_2Br$ 1) Aethylester d. α -Brompropionylamidoacetylamidoessigsäure. Sm. 135–136° (*B.* 36, 2985 *C.* 1903 [2] 1112).
- $C_9H_{16}ONCl$ *6) Pulegennitrosochlorid. Sm. 74–75° (*A.* 327, 131 *C.* 1903 [1] 1412).
- 7) Chlorid d. i-Amidolauronsäure. Sm. 266° u. Zers. (*Am.* 28, 485 *C.* 1903 [1] 329).
- $C_9H_{17}ONBr_2$ *2) Brommethylat d. Brompseudotropin. Sm. 237–238° u. Zers. (*A.* 326, 18 *C.* 1903 [1] 778).
- 3) Brommethylat d. Bromtropin. Sm. 233° (*A.* 326, 12 *C.* 1903 [1] 778).
- 4) 6,7-Dibrom-3-Dimethylamido-1-Oxy-R-Heptamethylen (α -Methyltropindibromid). HBr (*A.* 326, 11 *C.* 1903 [1] 778).
- $C_9H_{17}OJHg$ *1) lab. $\beta\zeta$ -Dimethylheptan- $\beta\zeta$ -Oxyd- γ -Quecksilberjodid. Fl. (*A.* 329, 169 *C.* 1903 [2] 1413).
- 2) stab. $\beta\zeta$ -Dimethylheptan- $\beta\zeta$ -Oxyd- γ -Quecksilberjodid. Sm. 108 bis 110° (*A.* 329, 170 *C.* 1903 [2] 1413).

- $C_9H_{17}NClBr$ 3) Chlormethylat d. Bromtropan. $2 + PtCl_4$ (A. 326, 36 C. 1903 [1] 779).
- $C_9H_{17}NBrJ$ 3) Jodmethylat d. Bromtropan (A. 326, 35 C. 1903 [1] 779).
- $C_9H_{15}O_2NJ$ 2) Jodmethylat d. 1-Methyltetrahydropyrrol-2-Carbonsäureäthylester. Sm. 88—89° (A. 326, 126 C. 1903 [1] 844).
- $C_9H_{19}O_3JHg$ * 1) stab. β -Dioxy- β -Dimethylheptan- γ -Quecksilberjodid. Sm. 124 bis 125° (A. 329, 173 C. 1903 [2] 1413).
- 2) lab. β -Dioxy- β -Dimethylheptan- γ -Quecksilberjodid. Fl. (A. 329, 172 C. 1903 [2] 1413).
- $C_9H_{20}ONCl$ 6) Chlormethylat d. 3,4,4,6-Tetramethyltetrahydro-1,3-Oxazin. $2 + PtCl_4 + AuCl_3$ (M. 25, 834, 838 C. 1904 [2] 1240).
- $C_9H_{22}ONCl$ 1) Chlormethylat d. δ -Dimethylamido- β -Oxy- β -Methylpentan: $2 + PtCl_4 + AuCl_3$ (M. 25, 848 C. 1904 [2] 1240).
- 2) Chlormethylat d. β -Dimethylamido- δ -Oxy- β -Methylpentan. $+ AuCl_3$ (M. 25, 144 C. 1904 [1] 866).
- $C_9H_{22}ONJ$ 1) Jodmethylat d. β -Dimethylamido- δ -Oxy- β -Methylpentan (M. 25, 147 C. 1904 [1] 866).
- $C_9H_{23}ON_2P$ 1) Di[Diäthylamid] d. Methylphosphinsäure. Sd. 145—148°₂₂ (A. 326, 163 C. 1903 [1] 761).
- $C_9H_{24}ON_3P$ 1) Tri[Propylamid] d. Phosphorsäure. Fl. (A. 326, 177 C. 1903 [1] 819).
- $C_9H_{24}O_2N_2Cl_3$ 1) Methylenäther d. Oxytetramethylammoniumchlorid. $+ PtCl_4 + 2AuCl_3$ (A. 334, 33 C. 1904 [2] 947).
- $C_9H_{24}N_3SP$ 1) Tri[Propylamid] d. Thiophosphorsäure. Sm. 73° (A. 326, 207 C. 1903 [1] 821).

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- $C_9H_7ONCl_2Br_2$ 1) 4-Chlor-2,6-Dibromphenylechloramid d. Propionsäure. Sm. 74° (Soc. 85, 181 C. 1904 [1] 938).
- $C_9H_7ON_2ClSe$ 1) 3-Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104).
- 2) 4-Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104).
- $C_9H_7ON_3BrSe$ 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104).
- 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104).
- $C_9H_7ON_4S_3P$ 1) Phosphoryltrithiocyanat $+ Anilin$. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407).
- $C_9H_7O_5NClBr$ 2) Aethyl-4-Chlor-6-Brom-2-Nitrophenylester d. Kohlensäure. Sm. 48—49,5° (Am. 32, 31 C. 1904 [2] 697).
- $C_9H_8ONClBr_2$ 2) 4-Chlor-2,6-Dibromphenylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938).
- 3) 2-Chlor-4,6-Dibromphenylamid d. Propionsäure. Sm. 185,5° (Soc. 85, 182 C. 1904 [1] 938).
- $C_9H_8ONCl_2Br$ 2) 2,4-Dichlor-6-Bromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938).
- 3) 2,6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 184° (Soc. 85, 182 C. 1904 [1] 938).
- $C_9H_8O_3ClBrS$ 1) α -Chlor- β -Merkaptopropion-4-Bromphenyläthersäure (C. 1903 [2] 1429).
- $C_9H_8O_6NCIS$ * 1) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäureäthylester-2-Sulfonsäure. Sm. 68° (Am. 30, 389 C. 1904 [1] 275).
- $C_9H_9ONClBr$ 5) 2-Chlor-4-Bromphenylamid d. Propionsäure. Sm. 129° (Soc. 85, 180 C. 1904 [1] 938).
- 6) 4-Chlor-2-Bromphenylamid d. Propionsäure. Sm. 128,5° (Soc. 85, 180 C. 1904 [1] 938).
- 7) 2-Chlor-6-Brom-4-Methylphenylamid d. Essigsäure. Sm. 201 bis 202° (Soc. 85, 1269 C. 1904 [2] 1302).
- $C_9H_9O_3NClBr$ 1) Aethylester d. 5-Chlor-3-Brom-2-Oxyphenylamidoameisen-säure. Sm. 116—118° (Am. 32, 33 C. 1904 [2] 697).
- 2) Aethyl-4-Chlor-6-Brom-2-Amidophenylester d. Kohlensäure. HCl (Am. 31, 501 C. 1904 [2] 95; Am. 32, 32 C. 1904 [2] 697).

- $C_9H_{10}ONCl_2P$ 1) Dichlorid d. 1, 2, 3, 4-Tetrahydro-1-Chinolyphosphinsäure. Sm. 79° (*A.* 326, 187 *C.* 1903 [1] 820).
- $C_9H_{10}O_3NBrS$ *1) α -Amido- β -Merkaptopropion-4-Bromphenyläthersäure. Sm. 192° (*C.* 1903 [2] 1429).
- $C_9H_{10}O_3N_2Br_2S$ 1) Diamid d. α - β -Dibrom- β -[4-Sulfophenyl]propionsäure. Sm. 208° (*C.* 1903 [2] 439).
- $C_9H_{10}O_4NBrS$ 4) α -Amido- β -[4-Bromphenyl]sulfonpropionsäure. Sm. 196° u. Zers. (*C.* 1903 [2] 1429).
- $C_9H_{12}ONCl_2P$ 1) 2, 4, 5-Trimethylphenylmonamid d. Phosphorsäuredichlorid. Sm. 122° (*A.* 326, 240 *C.* 1903 [1] 868).
- 2) 2, 4, 6-Trimethylphenylamid d. Phosphorsäuredichlorid. Sm. 155° (*A.* 326, 240 *C.* 1903 [1] 868).
- $C_9H_{13}O_3NBrP$ 1) 2-Brom-4-Methylphenylmonamid d. Phosphorsäuremonoäthylester. K (*A.* 326, 239 *C.* 1903 [1] 868).
- $C_9H_{17}ONBrJ$ 1) Jodmethylat d. Bromtropin. Sm. 233—234° u. Zers. (*A.* 326, 13 *C.* 1903 [1] 778).
- 2) Jodmethylat d. Brompseudotropin. Sm. 238° u. Zers. (*A.* 326, 19 *C.* 1903 [1] 778).
- $C_9H_{20}O_3NSP$ 1) Diäthylester d. 1-Piperidylphosphinsäure. Sd. 138°₁₀ (*A.* 326, 214 *C.* 1903 [1] 822).

C_{10} -Gruppe.

- $C_{10}H_8$ *1) Naphtalin (*C.* 1903 [2] 575; *B.* 37, 2531 *C.* 1904 [2] 447).
- $C_{10}H_{10}$ *9) α -Phenyl- α -Butadien. Sd. 90—92°₁₆ (*B.* 36, 4324 *C.* 1904 [1] 453; *B.* 37, 2103 *C.* 1904 [2] 104).
- *10) Phenyleyklobutadien. Sm. 25°; Sd. 120—122°₁₀ (*B.* 36, 4323 *C.* 1904 [1] 453).
- 13) Isocyklobutadien. Sm. 100—101°; Sd. 155—165°₁₆ (*B.* 36, 4323 *C.* 1904 [1] 453).
- $C_{10}H_{12}$ *1) δ -Phenyl- α -Buten. Sd. 182—185°₇₄₇ (*B.* 36, 3000 *C.* 1903 [2] 949; *B.* 36, 4323 *C.* 1904 [1] 453).
- *2) α -Phenyl- α -Buten. Sd. 188—190° (*B.* 36, 774 *C.* 1903 [1] 835; *B.* 37, 2312 *C.* 1904 [2] 216).
- *3) α -Phenyl- β -Methylpropen. Sd. 181—182°₇₆₁ (*B.* 37, 1722 *C.* 1904 [1] 1515).
- *8) 1, 2, 3, 4-Tetrahydronaphtalin. Sd. 206° (*C. r.* 139, 673 *C.* 1904 [2] 1654).
- *12) α -[4-Methylphenyl]propen. Sd. 195—197° (*B.* 36, 2235 *C.* 1903 [2] 437).
- *14) 4-Aethylphenyläthen. Sd. 68°₁₁ (*B.* 36, 1633 *C.* 1903 [2] 25).
- 16) α -Phenyl- β -Buten. Sd. 176°₇₆₅ (*B.* 35, 2651 *C.* 1902 [2] 588; *B.* 37, 843 *C.* 1904 [1] 1144; *B.* 37, 2310 *C.* 1904 [2] 216).
- 17) 2, 4-Dimethylphenyläthen. Sd. 79—80°₁₃ (*B.* 36, 1638 *C.* 1903 [2] 26).
- 18) 2, 5-Dimethylphenyläthen. Sd. 69°₁₀ (*B.* 36, 1639 *C.* 1903 [2] 26).
- $C_{10}H_{14}$ *2) Isobutylbenzol (*Bl.* [3] 31, 966 *C.* 1904 [2] 1112).
- *4) tert. Butylbenzol. Sd. 168,2°₇₆₀ (*Bl.* [3] 31, 965 *C.* 1904 [2] 1112).
- *12) 1, 4-Diäthylbenzol (*B.* 36, 1633 *C.* 1903 [2] 25).
- *15) 4-Aethyl-1, 3-Dimethylbenzol. Sd. 184—185°₇₅₄ (*B.* 36, 1638 *C.* 1903 [2] 26).
- *17) 2-Aethyl-1, 4-Dimethylbenzol. Sd. 185,5°₇₅₀ (*B.* 36, 1640 *C.* 1903 [2] 27).
- $C_{10}H_{16}$ *7) 1-Camphen. Sm. 40°; Sd. 159—160° (*C.* 1903 [1] 835; *J. pr.* [2] 66, 492 *C.* 1903 [1] 516; D.R.P. 149791 *C.* 1904 [1] 1042; D.R.P. 153924 *C.* 1904 [2] 678; D.R.P. 154107 *C.* 1904 [2] 965).
- *11) Carvestren (*J. pr.* [2] 68, 111 *C.* 1903 [2] 722).
- *15) Dipenten (5-Methyl-2- α -Methyläthenyl-1, 2, 3, 4-Tetrahydrobenzol) (*Soc.* 85, 668 *C.* 1904 [2] 331).
- *20) Fenchon (*J. pr.* [2] 67, 94 *C.* 1903 [1] 636).
- *28) Myrcen. Sd. 166—168°₇₇₄ (*Soc.* 83, 506 *C.* 1903 [1] 1028).
- *30) d- α -Phellandren (*J. pr.* [2] 68, 294 *C.* 1903 [2] 949).
- *33) Pinen. + 2CrO₂Cl₂ (*C.* 1903 [2] 372; *Soc.* 83, 1301 *C.* 1904 [1] 95).
- *30) d-4-Methyl-1-Isopropyl-1, 2-Dihydrobenzol (d- α -Phellandren). Sd. 61°₁₁ (*B.* 36, 1749 *C.* 1903 [2] 116; *A.* 336, 12 *C.* 1904 [2] 1466).
- *31) l- α -Phellandren (*A.* 336, 12 *C.* 1904 [2] 1466).
- *49) Thujen (*J. pr.* [2] 67, 573 *C.* 1903 [2] 245).

- $C_{10}H_{18}$ *121) Bornylen. Sm. 101—101,5°; Sd. 149—149,5° (*J. pr.* [2] 67, 280 *C.* 1903 [1] 922).
- *122) isom. Fenchon (aus sec. Fenchylalkohol). Sd. 159—161° (*J. pr.* [2] 68, 108 *C.* 1903 [2] 722).
- *124) 1- α -Thujen (*B.* 37, 1483 *C.* 1904 [1] 1349).
- *138) Kohlenwasserstoff (aus Kautschuköl) (*B.* 37, 3845 *C.* 1904 [2] 1613).
- 140) β -Dimethyl- δ -Methylen- β -Heptadien. Sd. 55—57°₁₄ (*B.* 37, 3580 *C.* 1904 [2] 1376).
- 141) 6-Isopropyl-3-Methyl-1,2-Dihydrobenzol (p-Menthadien). Sd. 174 bis 176°₇₆₈ (*A.* 328, 323 *C.* 1903 [2] 1062).
- 142) 3-Isopropyl-1-Methyl- β -Dihydrobenzol. Sd. 172—174° (*A.* 328, 117 *C.* 1903 [2] 245).
- 143) β -[1-Methyl-1,2,3,4-Tetrahydrophenyl-4-]propen? Sd. 75—80°₉ (*B.* 36, 489 *C.* 1903 [1] 637).
- 144) 2-Aethenyl-1,1,5-Trimethyl-2,3-Dihydro-R-Penten. Sd. 157—158° (*C. r.* 136, 1462 *C.* 1903 [2] 287).
- 145) β -Phellandren. Sd. 57°₁₁ (*G.* 16, 225; *A.* 336, 42 *C.* 1904 [2] 1468). — III, 529.
- 146) Tricyklodekan (Tetrahydrodicyklopentadien). Sm. 77°; Sd. 193°₇₈₉ (*C.* 1903 [2] 989).
- 147) isom. Tricyklodekan. Sm. 9°; Sd. 191,5°₇₆₉ (*C.* 1903 [2] 989).
- 148) Cyklen. Sm. 67,5—67,8°; Sd. 152,8—153°_{757,5} (*J. r.* 29, 121; *B.* 37, 1035 *C.* 1904 [1] 1263).
- 149) synth. Paraterpen. Sd. 174° (*B.* 25, 2122; 26, 232; 27, 453). — *III, 401.
- 150) 1- β -Thujen. Sd. 150—151°₇₅₀ (*B.* 34, 2279; *B.* 37, 1482 *C.* 1904 [1] 1349).
- 151) Tricylen. Sm. 65—66°; Sd. 153° (*C.* 1897 [1] 1055). — *III, 402.
- 152) Terpen (aus Cinnamomumpedatinervium). Sd. 167—172° (*Sec.* 83, 1095 *C.* 1903 [2] 794).
- 153) Terpen (aus d. Oel von *Amorpha fruticosa*). Sd. 150—220°₇₅₀ (*C.* 1904 [2] 224).
- 154) Kohlenwasserstoff (aus Thymianöl). Sd. 156—158° (*Bl.* [3] 19, 1010). — *III, 401.
- 155) Kohlenwasserstoff (aus Fenchylchlorid). Sd. 181—184° (*J. pr.* [2] 68, 109 *C.* 1903 [2] 722).
- 156) Kohlenwasserstoff (aus Guttapercha). Sd. 170° (*C.* 1903 [1] 83).
- 157) polym. Kohlenwasserstoff (aus Cineol). Sd. 200—245°₂₂ (*Ar.* 242, 193 *C.* 1904 [1] 1350).
- $C_{10}H_{18}$ *5) Menthen. Sd. 168—168,5° (*B.* 37, 1375 *C.* 1904 [1] 1441).
- *10) Dekahydronaphtalin. Sd. 187—188° (*C. r.* 139, 674 *C.* 1904 [2] 1654).
- 39) 5-Methyl-2-Isopropyl-1,2,3,4-Tetrahydrobenzol (Dihydrophellandren; Dihydrolimonen). Sd. 173—174° (*B.* 36, 1035 *C.* 1903 [1] 1134; *B.* 36, 1753 *C.* 1903 [2] 117).
- 40) 1-Methylbicyclo-[1,3,3]-Nonan. Sd. 176—178°₇₅₁ (*B.* 37, 1674 *C.* 1904 [1] 1607).
- 41) Oineolen. Sd. 165—167° (*Ar.* 242, 185 *C.* 1904 [1] 1350).
- 42) Dihydrotanacetan. Sd. 164—166° (*B.* 36, 1037 *C.* 1903 [1] 1135).
- 43) Thujamenthen. Sd. 157—159°₇₅₀ (*B.* 37, 1485 *C.* 1904 [1] 1350).
- 44) Kohlenwasserstoff (aus Bornyljodid oder Hydrojodpinen). Sd. 157—159° (*B.* 35, 4419 *C.* 1903 [1] 330).
- 45) Kohlenwasserstoff (aus Chlorcampher). Sd. 315° (*C. r.* 135, 1349 *C.* 1903 [1] 322).
- 46) Kohlenwasserstoff (aus d. Glykol $C_{10}H_{22}O_2$). Sd. 138° (*M.* 24, 582 *C.* 1903 [2] 870).
- $C_{10}H_{20}$ 25) ζ -Methyl- γ -Aethyl- γ -Hepten. Sd. 157—158°₇₅₀ (*Bl.* [3] 31, 753 *C.* 1904 [2] 303).



- 6) Verbindung (aus Diphenacylfumarsäure) (*A.* 299, 60). — *II, 1191.
- *3) 5-Oxy-1,4-Naphtochinon. Sm. 154° (*C.* 1903 [2] 1109).
- 7) 1,3-Diketo-2-Oxymethylen-2,3-Dihydroinden + H_2O . Sm. 141 bis 142° (wasserfrei). NH_4 , Na, Cu (*G.* 32 [2] 330 *C.* 1903 [1] 586; *G.* 33 [1] 417 *C.* 1903 [2] 950).
- 8) Aldehyd d. 1,2-Benzpyron-6-Carbonsäure. Sm. 187° (*B.* 37, 195 *C.* 1904 [1] 661).

- $C_{10}H_8O_4$ *2) Naphtazarin. 2 + Essigsäures Kali (*See* 83, 140 *C.* 1903 [1] 89, 466).
 *8) 1,2-Benzpyron-3-Carbonsäure. Sm. 188° (*C.* 1903 [1] 89).
 15) 1,2-Benzpyron-6-Carbonsäure. Sm. 267—268° u. Zers. (*B.* 37, 196 *C.* 1904 [1] 661).
- $C_{10}H_6O_5$ 10) Benzfuran-1,4-Dicarbonsäure. Sm. noch nicht bei 310° (*B.* 37, 200 *C.* 1904 [1] 661).
- $C_{10}H_8O_6$ *5) 2,3-oder 3,4-Anhydrid d. 5-Oxy-1-Methylbenzol-2,3,4-Tricarbon-säure. + $C_2H_4O_2$ (*B.* 37, 3346 *C.* 1904 [2] 1057).
 6) α ,2-Lakton d. α -Oxy- α -Phenylmethan- α ,2,5-Tricarbonsäure (Phthaliddicarbonsäure) (*B.* 36, 843 *C.* 1903 [1] 971).
 *1) 1-Chlornaphtalin (*C. r.* 135, 1122 *C.* 1903 [1] 283).
 *4) 1,5-Dioxynaphtalin (*J. pr.* [2] 69, 84 *C.* 1904 [1] 812).
 *7) 1,8-Dioxynaphtalin (*J. pr.* [2] 69, 87 *C.* 1904 [1] 813).
 *15) 1-Acetylbenzfuran. Sm. 75—76° (*B.* 36, 2864 *C.* 1903 [2] 832).
 *24) Methylester d. Phenylpropionsäure. Sm. 24—26° (*Bl.* [3] 31, 495 *C.* 1904 [1] 1602).
- $C_{10}H_8O_3$ *20) Anhydrid d. α -Phenyläthan- α β -Dicarbonsäure. Sm. 53—54° (*M.* 24, 418 *C.* 1903 [2] 622; *See* 85, 1365 *C.* 1904 [2] 1646).
 33) 6-Oxymethyl-1,2-Benzpyron. Sm. 150° (*B.* 37, 194 *C.* 1904 [1] 660).
 34) isom. γ -Keto- α -Phenylpropen- γ -Carbonsäure + H_2O . Sm. 53—54° (57° wasserfrei) (*B.* 36, 2528 *C.* 1903 [2] 496).
- $C_{10}H_8O_4$ *11) β -[3,4-Dioxyphenyl]akryl-3,4-Methylenäthersäure. Sm. 242° (*C.* 1904 [1] 880).
 *23) Methylester d. Phthalidcarbonsäure. Sm. 57° (*A.* 334, 358 *C.* 1904 [2] 1054).
 33) 5,7-Dioxy-2-Methyl-1,4-Benzpyron. Sm. 290° (*B.* 37, 2100 *C.* 1904 [2] 122).
 34) 7,8-Dioxy-2-Methyl-1,4-Benzpyron + $\frac{1}{2}H_2O$. Sm. 243° (wasserfrei) (*B.* 36, 2192 *C.* 1903 [2] 384).
 35) 5,7-Dioxy-4-Methyl-2,1-Benzpyron. Sm. 258° (*D.R.P.* 73 700). — *II, 1125.
 36) Isoanemonin (*Ar.* 230, 201). — *III, 456.
 37) 4-Oxymethylbenzfuran-1-Carbonsäure. Sm. 210°. Ca (*B.* 37, 199 *C.* 1904 [1] 661).
 38) Aldehyd d. 3,4,5-Trioxy-1-Aethenylbenzol-4,5-Methylenäther-2-Carbonsäure (Norcotaronon). Sm. 89°. K (*B.* 36, 1530 *C.* 1903 [2] 52).
 39) Monophenylester d. Fumarsäure. Sm. 130° (*B.* 35, 4087 *C.* 1903 [1] 75).
 40) Monophenylester d. Maleinsäure. Sm. 101° (*B.* 35, 4089 *C.* 1903 [1] 75).
 41) polym. 1,2-Phenyleneester d. Bernsteinsäure. = $(C_{10}H_8O_4)_x$. Sm. 190° (*B.* 35, 4075 *C.* 1903 [1] 73).
 42) polym. 1,4-Phenyleneester d. Bernsteinsäure. = $(C_{10}H_8O_4)_x$. Sm. 267 bis 269° (*B.* 35, 4076 *C.* 1903 [1] 73).
- $C_{10}H_8O_5$ 19) 2-Methylester d. Benzol-1-Carbonsäure-2-Ketocarbonsäure + H_2O . Sm. 79—81° (*M.* 24, 926 *C.* 1904 [1] 514; *M.* 25, 391 *C.* 1904 [2] 324).
- $C_{10}H_8N_6$ 15) Dianhydrid d. cis-Hexahydrobenzol-1,2,4,5-Tetracarbonsäure. Sm. 60° (*See* 83, 786 *C.* 1903 [2] 439).
- $C_{10}H_8O_7$ 5) 6-Oxybenzol-1,3-Dicarbonsäure-4-Methylcarbonsäure. Sm. 250 bis 255° (*B.* 37, 2121 *C.* 1904 [2] 438).
- $C_{10}H_8S$ *1) 1-Meraptonaphtalin (*Bl.* [3] 29, 762 *C.* 1903 [2] 620).
 $C_{10}H_8Se$ *1) 1-Selenonaphtalin. Fl. (*Bl.* [3] 29, 763 *C.* 1903 [2] 620).
 $C_{10}H_8N$ *1) 1-Amidonaphtalin (*C. r.* 138, 1038 *C.* 1904 [1] 1490).
 *2) 2-Amidonaphtalin (*C. r.* 138, 1039 *C.* 1904 [1] 1490; *B.* 37, 2616 *C.* 1904 [2] 517).
 *8) 6-Methylchinolin. Sd. 258° (*C.* 1904 [2] 543).
- $C_{10}H_9Cl$ 4) α -Chlor- α -Phenyl- α β -Butadien. Sd. 232—234° (*B.* 36, 775 *C.* 1903 [1] 835).
- $C_{10}H_{10}O$ *4) 2-Keto-1,2,3,4-Tetrahydronaphtalin (*B.* 36, 710 *C.* 1903 [1] 818).
 *5) 1-Keto-2-Methyl-2,3-Dihydroinden. Fl. (*See* 83, 915 *C.* 1903 [2] 504).
 *14) Benzylidenacetone. + H_3PO_4 (*C.* 1903 [2] 284).

- $C_{10}H_{10}O$ 31) 2-Keto-1-Methyl-2,3-Dihydroinden. Sm. 62—63° (*A.* 336, 6 *C.* 1904 [2] 1466).
- 32) Aldehyd d. β -[4-Methylphenyl]akrylsäure. Sm. 41,5°; Sd. 154 bis 159°₂₅ (*B.* 36, 850 *C.* 1903 [1] 975).
- $C_{10}H_{10}O_2$ *2) Isosafrol. Sd. 246—248°. Pikrat (*C.* 1904 [2] 954, 1568).
- *8) Benzoylacetone (*B.* 36, 1837 *C.* 1903 [2] 192).
- *12) α -Phenylpropen- α -Carbonsäure. Sm. 136° (*B.* 36, 2254 *C.* 1903 [2] 437).
- *25) Lakton d. γ -Oxy- γ -Phenylbuttersäure. Sm. 37°; Sd. 123°₂ (*C.* 1904 [1] 1259).
- *26) Dimethylphtalid. Sm. 67—68°; Sd. 274—275° (*B.* 37, 736 *C.* 1904 [1] 1078).
- 40) Methylenäther d. β -[3,4-Dioxyphenyl]propen. Sd. 238—239° (*C. r.* 139, 140 *C.* 1904 [2] 593).
- 41) γ -Keto- α -[4-Oxyphenyl]- α -Buten (4-Oxybenzalacetone). Sm. 102—103° (*B.* 36, 134 *C.* 1903 [1] 458).
- 42) 1-[α -Oxyäthyl]benzofuran. Sm. 37°; Sd. 145°₁₅ (*B.* 36, 2869 *C.* 1903 [2] 833).
- 43) β -Phenylpropen- α -Carbonsäure. Sm. 97—98,8°; Sd. 166—168°₁₁ (*B.* 37, 1092 *C.* 1904 [1] 1262; *C. r.* 138, 986 *C.* 1904 [1] 1439).
- 44) isom. β -Phenylpropen- α -Carbonsäure. Sm. 129°; Sd. 170—172°₁₄ (*C. r.* 138, 986 *C.* 1904 [1] 1439).
- 45) trans-1-Phenyl-R-Trimethylen-2-Carbonsäure. Sm. 105°. Ca + 2H₂O, Ag (*B.* 36, 3784 *C.* 1904 [1] 42).
- 46) Aldehyd d. β -[4-Methoxyphenyl]akrylsäure. Sm. 58°; Sd. 173 bis 176°₁₄ (*B.* 36, 853 *C.* 1903 [1] 976).
- $C_{10}H_{10}O_3$ *3) Methylenäther d. Aethyl-3,4-Dioxyphenylketon. Sm. 39° (*C.* 1904 [2] 1568).
- *9) γ -Oxy- α -Phenylpropen- γ -Carbonsäure. Sm. 135° (*B.* 36, 2529 *C.* 1903 [2] 496).
- *23) β -Benzoylpropionsäure. Sm. 116°. Ca (*M.* 24, 81 *C.* 1903 [1] 769).
- *34) Lakton d. 1-Dioxymethylbenzoläthyläther-2-Carbonsäure. Sm. 64°; Sd. 255—260° (*M.* 25, 498 *C.* 1904 [2] 325).
- 56) Methylenäther d. β -Keto- α -[3,4-Dioxyphenyl]propan. Sd. 156° (*A.* 332, 332 *C.* 1904 [2] 652).
- 57) β -Oxy- β -Phenylakrylmethyläthersäure. Sm. 180° u. Zers. (*C. r.* 137, 261 *C.* 1903 [2] 664; *C. r.* 138, 287 *C.* 1904 [1] 719).
- 58) 1-Aethylbenzol-4-Ketocarbonsäure. Sm. 70—71° (*C. r.* 136, 558 *C.* 1903 [1] 832).
- 59) Dialdehyd d. 3-Oxy-1,4-Dimethylbenzol-2,6-Dicarbonsäure. Sm. 154° (*B.* 35, 4108 *C.* 1903 [1] 150).
- 60) Aethylester d. Benzol-1-Carbonsäure-2-Carbonsäurealdehyd. Sd. 240—243° u. Zers. (*M.* 25, 497 *C.* 1904 [2] 325).
- 61) Carbonat d. 3,4-Dioxy-1-Propylbenzol. Sd. 139—141°₁₃ (*C. r.* 138, 425 *C.* 1904 [1] 798).
- 62) Carbonat d. 3,4-Dioxy-1-Isopropylbenzol. Sm. 41°; Sd. 135—137°₁₃ (*C. r.* 138, 1703 *C.* 1904 [2] 436).
- 63) Verbindung (aus Isosafrol). Sd. 142°₂₃ (*B.* 36, 3580 *C.* 1903 [2] 1363).
- $C_{10}H_{10}O_4$ *9) β -[3,4-Dioxyphenyl]propionmethylenäthersäure. Sm. 84—85° (*C.* 1904 [1] 879).
- *18) α -Phenyläthan- α - β -Dicarbonsäure. Sm. 167°. K + H₂O, Ag₂ (*M.* 24, 417 *C.* 1903 [2] 622; *B.* 37, 4069 *C.* 1904 [2] 1651; *Soc.* 85, 1365 *C.* 1904 [2] 1646).
- *39) α -Lakton d. α β -Trioxy- γ -Phenylbuttersäure. Sm. 116—117° (*B.* 37, 3127 *C.* 1904 [2] 1042).
- *40) Mekonin (*Ar.* 241, 261 *C.* 1903 [2] 447).
- *53) Dimethylester d. Benzol-1,4-Dicarbonsäure (*B.* 37, 2002 *C.* 1904 [2] 225).
- *67) β β -Dioxy- α γ -Diketo- α -Phenylbutan. Ba₂ (*B.* 36, 3226 *C.* 1903 [2] 940).
- 75) 4,6-Dioxy-1,3-Diacetylbenzol (*C.* 1904 [1] 1597).
- 76) Dimethyläther d. 5,6-Dioxy-2-Keto-1,2-Dihydrobenzofuran. Sm. 122° (*Soc.* 83, 137 *C.* 1903 [1] 90, 466).

- $C_{10}H_{10}O_4$ 77) 5-Oxy-1-Methylbenzoldimethyläther - 2 - Ketocarbonsäure + H_2O . Sm. 85° (C. 1904 [1] 1597).
 78) 3-Oxy-1-Methylbenzoldimethyläther - 4 - Ketocarbonsäure + H_2O . Sm. 101° (C. 1904 [1] 1597).
 79) 6-Acetoxy-1-Methylbenzol-2-Carbonsäure. Sm. 144,5° (D.R.P. 91201). — *II, 918.
 80) Aldehyd d. 3-Acetoxy-4-Oxybenzol-4-Methyläther-1-Carbonsäure. Sm. 64° (B. 35, 4397 C. 1903 [1] 340).
 81) 1-Methylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 143—145° (M. 24, 944 C. 1904 [1] 516).
 82) 2-Methylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 96—98° (M. 24, 939 C. 1904 [1] 515).
 83) Monophenylester d. Bernsteinsäure. Sm. 98° (B. 35, 4076 C. 1903 [1] 73).
- $C_{10}H_{10}O_5$ *5) 3,4-Dioxybenzoldimethyläther-1-Ketocarbonsäure. Sm. 138—139° (wasserfrei). K, Pb, Cu + $5H_2O$, Ag (C. 1904 [1] 511).
 *19) 4-Oxybenzoldimethyläther-1,2-Dicarbonsäure. Sm. 163° (C. 1904 [1] 1597).
 *20) 2-Oxybenzoldimethyläther-1,4-Dicarbonsäure. Sm. 254° (C. 1904 [1] 1597).
 44) Isoanemonsäure (Ar. 230, 193). — *III, 456.
 45) β -Ketopropylester d. 3,5-Dioxybenzol-1-Carbonsäure + H_2O . Sm. 97° (D.R.P. 73700). — *II, 1030.
 46) Verbindung (aus $\beta\gamma\delta$ -Triketopentan). Sm. 119° (B. 36, 3230 C. 1903 [2] 941).
- $C_{10}H_{10}O_6$ *3) Dillölapiolsäure (Ar. 242, 341 C. 1904 [2] 525).
 32) 6-Oxy-3-Methylphenyltartronsäure. K_2 (D.R.P. 115817 C. 1901 [1] 72). — *II, 1165.
- $C_{10}H_{10}O_7$ 4) Pyrogalloldiglykolsäure (D.R.P. 155568 C. 1904 [2] 1443).
 5) 3,4-Dioxyphenyltartron-3-Methyläthersäure. K_2 (D.R.P. 115817 C. 1901 [1] 72). — *II, 1194.
- $C_{10}H_{10}N_2$ *6) 1,5-Diamidonaphtalin. Sm. 189—190° (C. 1904 [1] 461; J. pr. [2] 69, 84 C. 1904 [1] 812).
 *9) 1,8-Diamidonaphtalin. Sm. 66—67° (C. 1904 [1] 461).
 *12) 2,7-Diamidonaphtalin (J. pr. [2] 69, 89 C. 1904 [1] 813).
 *15) 3-Methyl-1-Phenylpyrazol. Sm. 35° (B. 36, 3988 C. 1904 [1] 171).
 *19) 3-Methyl-5-Phenylpyrazol. Sm. 127—127,5° (C. r. 136, 1264 C. 1903 [2] 122).
 *27) 1-Methyl-2-[3-Pyridyl]pyrrol (Nikotyrin). Sd. 276° (272—274°) (C. r. 137, 861 C. 1904 [1] 104; B. 37, 1226 C. 1904 [1] 1278).
- $C_{10}H_{10}N_4$ 6) 1-Benzylidenediamido-5-Methyl-1,2,3-Triazol. Sm. 67—68° (B. 36, 3617 C. 1903 [2] 1381).
 7) Nitril d. 1,4-Phenylendi[Amidoessigsäure]. Sm. 170—171° (D.R.P. 145062 C. 1903 [2] 1036).
- $C_{10}H_{10}Br_2$ 2) $\alpha\delta$ -Dibrom- α -Phenyl- β -Buten. Sm. 94° (B. 36, 1404 C. 1903 [1] 1347; B. 36, 4325 C. 1904 [1] 453).
- $C_{10}H_{10}Br_4$ *3) 2,3,5,6-Tetrabrom-1,4-Diäthylbenzol. Sm. 112° (B. 36, 1633 C. 1903 [2] 25).
 *6) $\alpha\beta\gamma\delta$ -Tetrabrom- α -Phenylbutan. Sm. 151° (B. 36, 1406 C. 1903 [1] 1348; B. 36, 4325 C. 1904 [1] 453).
 7) isom. $\alpha\beta\gamma\delta$ -Tetrabrom- α -Phenylbutan. Sm. 76° (B. 36, 1406 C. 1903 [1] 1348).
- $C_{10}H_{11}N$ *21) Nitril d. 1,3,5-Trimethylbenzol-2-Carbonsäure. Sm. 53° (B. 36, 331 C. 1903 [1] 576).
- $C_{10}H_{11}N_3$ *7) 5-Imido-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 116° (B. 36, 3271 C. 1903 [2] 1188; B. 36, 3279 C. 1903 [2] 1189).
 17) 2-Phenylazo-1-Methylpyrrol. Sd. 140°₁₁. Pikrat (G. 32 [2] 464 C. 1903 [1] 839).
- $C_{10}H_{11}Cl$ 3) 2-Chlor-1,2,3,4-Tetrahydronaphtalin. Sd. 230° u. Zers. (C. r. 139, 673 C. 1904 [2] 1654).
- $C_{10}H_{11}Br$ 3) γ -Brom- β -Phenyl- β -Buten. Sd. 114—116°₁₃ (B. 37, 233 C. 1904 [1] 660).
 4) 5-Brom-1,2,3,4-Tetrahydronaphtalin. Sd. 255—257° (Soc. 85, 729 C. 1904 [2] 116, 338).

- $C_{10}H_{11}Br$ 5) 6-Brom-1,2,3,4-Tetrahydronaphtalin. *Sd.* 238—239°₇₅₈ (*Soc.* 85, 729 *C.* 1904 [2] 116, 338).
- 6) 2-Brom-1,2,3,4-Tetrahydronaphtalin. *Sd.* 250° u. Zers. (*C. r.* 139, 673 *C.* 1904 [2] 1654).
- $C_{10}H_{11}Br_3$ 8) 2,5,6-Tribrom-4-Aethyl-1,3-Dimethylbenzol. *Sm.* 135° (*B.* 36, 1639 *C.* 1903 [2] 26).
- 9) 3,4,5-Tribrom-2-Aethyl-1,4-Dimethylbenzol. *Sm.* 89° (*B.* 36, 1640 *C.* 1903 [2] 27).
- $C_{10}H_{11}J$ 1) β -[4-Jodphenyl]- β -Buten. *Sm.* 45—46°; *Sd.* 155°₂₉ (*B.* 35, 2642 *C.* 1902 [2] 586).
- $C_{10}H_{12}O$ *6) Methyläther d. 4-Oxy-1-Allylbenzol. *Sd.* 108—114°₂₅ (215—216°) (*D. R. P.* 154654 *C.* 1904 [2] 1355; *C. r.* 139, 482 *C.* 1904 [2] 1038).
- *7) Methyläther d. 2-Oxy-1-Propenylbenzol. *Sd.* 222° (*B.* 36, 1188 *C.* 1903 [1] 1179).
- *15) Aethyläther d. β -Oxy- α -Phenyläthen. *Sd.* 225—226° (*C. r.* 138, 288 *C.* 1904 [1] 720; *Bl.* [3] 31, 527 *C.* 1904 [1] 1552).
- *27) Methyl-2,4-Dimethylphenylketon. + H_2SO_4 (*R.* 21, 355 *C.* 1903 [1] 151).
- *30) 2-Methyl-3,4-Dihydro-1,2-Benzpyran. *Sm.* 223° (*B.* 36, 2872 *C.* 1903 [2] 833).
- *32) Aldehyd d. α -[4-Methylphenyl]äthan- α -Carbonsäure. *Sd.* 219—221° (*C. r.* 137, 1261 *C.* 1904 [1] 445).
- *37) Aldehyd d. 1,3,5-Trimethylbenzol-2-Carbonsäure (*Soc.* 85, 219 *C.* 1904 [1] 656, 939).
- *41) Aethyläther d. α -Oxy- α -Phenyläthen. *Sd.* 209—210° (*C. r.* 138, 287 *C.* 1904 [1] 719; *Bl.* [3] 31, 525 *C.* 1904 [1] 1552).
- *43) Methyläther d. β -[4-Oxyphenyl]propen. *Sm.* 32°; *Sd.* 222° (*C. r.* 139, 140 *C.* 1904 [2] 593; *B.* 37, 3995 *C.* 1904 [2] 1640).
- 49) Methyläther d. β -[2-Oxyphenyl]propen (o-Pseudoanisol). *Sd.* 198—199° (*C. r.* 139, 140 *C.* 1904 [2] 593).
- 50) Methyläther d. β -[3-Oxyphenyl]propen. *Sd.* 215—216° (*C. r.* 139, 140 *C.* 1904 [2] 593).
- 51) Aethyläther d. 4-Oxyphenyläthen. *Sd.* 108—110°₁₂ (*B.* 36, 3594 *C.* 1903 [2] 1366).
- 52) 4,6-Dimethyl-1,2-Dihydrobenzofuran. *Fl.* (*B.* 36, 2877 *C.* 1903 [2] 834).
- $C_{10}H_{12}O_2$ *3) Eugenol (*J. pr.* [2] 68, 237 *C.* 1903 [2] 1063).
- *20) Aethyläther d. Methyl-4-Oxyphenylketon. *Sd.* 158—161°₁₅ (*B.* 36, 3593 *C.* 1903 [2] 1366).
- *28) γ -Phenylbuttersäure. *Sm.* 47—48° (*C. r.* 138, 1049 *C.* 1904 [1] 1493).
- *29) i- α -Phenylpropan- β -Carbonsäure. *Sm.* 37°; *Sd.* 160—161°₁₇. *Ag* (*Soc.* 83, 915 *C.* 1903 [2] 504; *Soc.* 83, 1006 *C.* 1903 [2] 663).
- *30) α -[4-Methylphenyl]propionsäure (*B.* 36, 769 *C.* 1903 [1] 836).
- *46) 1,2,4-Trimethylbenzol-5-Carbonsäure. + H_2SO_4 (*R.* 21, 352 *C.* 1903 [1] 150).
- *48) 1,3,5-Trimethylbenzol-2-Carbonsäure. *Salze* siehe (*Soc.* 85, 240 *C.* 1904 [1] 1006).
- *55) Aethylester d. Phenylessigsäure (*B.* 36, 3088 *C.* 1903 [2] 1004).
- *73) Aethyl-6-Oxy-3-Methylphenylketon. *Sm.* —2°; *Sd.* 135—140°₂₂ (*B.* 36, 3892 *C.* 1904 [1] 93).
- *84) Methyläther d. Aethyl-2-Oxyphenylketon. *Sd.* 137°₁₆ (*B.* 36, 2585 *C.* 1903 [2] 621).
- *87) d- α -Phenylpropan- β -Carbonsäure. *Fl.* Chininsalz (*Soc.* 83, 1007 *C.* 1903 [2] 663).
- 92) 3-Methyläther d. β -[3,4-Dioxyphenyl]propen. *Sd.* 257—258° (*C. r.* 139, 140 *C.* 1904 [2] 593).
- 93) Methyläther d. β -Keto- α -[4-Oxyphenyl]propan. *Sd.* 141° (i. V.) (*A.* 332, 323 *C.* 1904 [2] 651).
- 94) Methyläther d. Methyl-4-Oxy-2-Methylphenylketon. *Sm.* 12°; *Sd.* 268°₇₅₉ (*C.* 1904 [1] 1597).
- 95) Methyläther d. Methyl-2-Oxy-4-Methylphenylketon. *Sm.* 37,2°; *Sd.* 265°₇₅₁ (*C.* 1904 [1] 1597).
- 96) Aethyläther d. Oxymethylphenylketon. *Sd.* 134—136°₂₁ (*C. r.* 138, 91 *C.* 1904 [1] 505).

- $C_{10}H_{12}O_2$ 97) 1-[α -Oxyäthyl]-1,2-Dihydrobenzofuran. Sd. 142°₁₅ (B. 36, 2870 C. 1903 [2] 833).
 98) Rheosmin. Sm. 79,5° (C. 1903 [1] 883; C. r. 136, 386 C. 1903 [1] 722).
 99) Aldehyd d. 6-Oxy-1-Methylbenzyläthyläther-2-Carbonsäure. Sd. 258–260° (B. 31, 1151). — *III, 65.
 100) Acetat d. 4-Oxymethyl-1-Methylbenzol. Sd. 227° (B. 37, 1466 C. 1904 [1] 1342).
- $C_{10}H_{12}O_3$ *11) 3-Oxy-5-Isopropyl-2-Methyl-1,4-Benzochinon. Sm. 170° (A. 336, 29 C. 1904 [2] 1467).
 *13) Methyläther d. 5-Oxy-2-Propyl-1,4-Benzochinon. Sm. 111° (B. 36, 859 C. 1903 [1] 1084; Ar. 242, 99 C. 1904 [1] 1008).
 *51) 3-Oxy-1-Methylbenzyläthyläther-4-Carbonsäure. Sm. 78,5° (C. 1904 [1] 1597).
 *66) Aethylester d. α -Oxyphenylessigsäure (C. 1903 [2] 199).
 *94) 5-Oxy-1-Methylbenzyläthyläther-2-Carbonsäure. Sm. 146° (C. 1904 [1] 1597).
 104) 3,4-Methylenäther d. 3,4-Dioxy-1-[α -Oxypropyl]benzol. Sd. 172 bis 175° (C. 1904 [2] 1568).
 105) 4,5-Methylenäther d. 2,4,5-Trioxyl-Propylbenzol. Sm. 71–72° (Ar. 242, 90 C. 1904 [1] 1007).
 106) α -Oxyisopropyl-4-Oxyphenylketon. Sm. 97–98° (D.R.P. 80986). — *III, 120.
 107) Methyläther d. 6-Oxy-2-Propyl-1,4-Benzochinon. Sm. 79° (B. 36, 1719 C. 1903 [2] 114; Ar. 242, 347 C. 1904 [2] 525).
 108) Dimethyläther d. Methyl-2,5-Dioxyphenylketon. Sd. 156–158°₁₅ (B. 37, 3996 C. 1904 [2] 1641).
 109) Dimethyläther d. Methyl-3,5-Dioxyphenylketon. Sd. 290–291° (B. 36, 2302 C. 1903 [2] 578).
 110) α -Phenylbutan- β -Ozonid. Sd. 80–100°_{11–12} (B. 37, 843 C. 1904 [1] 1144).
 111) 1- α -Oxy- α -Phenylbuttersäure. Zn, Ag (Soc. 85, 1258 C. 1904 [2] 1304).
 112) Aldehyd d. 4,5-Dioxy-1-Methylbenzol-4-Aethyläther-1-Carbonsäure. Sm. 91° (D.R.P. 91170). — *III, 77.
 113) Aldehyd d. 3,4-Dioxybenzol-3-Propyläther-1-Carbonsäure. Sm. 82° (D.R.P. 85196). — *III, 74.
- $C_{10}H_{12}O_4$ *4) 3,4-Dimethyläther d. Methyl-2,3,4-Trioxypheylketon. Sm. 78 bis 79° (B. 36, 127 C. 1903 [1] 468; Soc. 83, 132 C. 1903 [1] 89, 466).
 *30) Rhizoninsäure (J. pr. [2] 68, 16 C. 1903 [2] 511).
 *39) Methylester d. 3,5-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 41° (81°?) (B. 35, 3902 C. 1903 [1] 27).
 *43) Dimethylester d. cis-1,4-Dihydrobenzol-1,4-Dicarbonsäure (B. 36, 2857 C. 1903 [2] 1129).
 *54) α -Benzoat d. $\alpha\beta\gamma$ -Trioxopropan. Sm. 36°; Sd. 124° (B. 36, 1573 C. 1903 [2] 225; B. 36, 4341 C. 1904 [1] 433).
 66) 3,4-Methylenäther d. 3,4-Dioxy-1-[$\alpha\beta$ -Dioxypropyl]benzol. Sm. 101 bis 102° (B. 24, 3490; B. 36, 3580 C. 1903 [2] 1363).
 67) Propyl-2,3,4-Trioxypheylketon + xH₂O. Sm. 76–80° (100° wasserfrei) (D.R.P. 49149, 50451). — *III, 119.
 68) 3,6-Dioxy-2,5-Diäthyl-1,4-Benzochinon. Sm. 217–218° (B. 37, 2385 C. 1904 [2] 307).
 69) 3,5-Dioxy-1-Methylbenzoldimethyläther-2-Carbonsäure. Zers. bei 178° (M. 24, 897 C. 1904 [1] 512).
 70) 3,5-Dioxy-1-Methylbenzoldimethyläther-4-Carbonsäure. Sm. 140° u. Zers. (M. 24, 901 C. 1904 [1] 513).
 71) 4-Oxy-1-Oxymethylbenzol-1-Aethyläther-3-Carbonsäure. Sm. 74° (D.R.P. 113512 C. 1900 [2] 796). — *II, 1032.
 72) 2-Methyl-R-Penten-5-Carbonsäure-4-[Aethyl- β -Carbonsäure]. Sm. 218°. Ba (B. 36, 947 C. 1903 [1] 1021).
 73) Aldehyd d. 2,4,6-Trioxylbenzoldimethyläther-1-Carbonsäure. Sm. 118° (M. 24, 863, 866 C. 1904 [1] 367).
 74) Methylester d. 3,5-Dioxy-1,4-Dimethylbenzol-2-Carbonsäure (Atrarsäure; Physcianin; Ceratophyllin). Sm. 143° (G. 12, 257; A. 119, 365; 284, 189; 288, 48; 295, 225; B. 30, 359, 1985; J. pr. [2] 57, 287). — II, 2083; III, 642; *II, 1036.

- $C_{10}H_{12}O_4$ 75) Methylester d. 3,5-Dioxy-1-Methylbenzol-2-Methyläther-2-Carbonsäure. Sm. 95—97° (*M.* 24, 896 *C.* 1904 [1] 512).
 76) Methylester d. 3,5-Dioxy-1-Methylbenzol-3-Methyläther-4-Carbonsäure. Sm. 63—65° (*M.* 24, 899 *C.* 1904 [1] 512).
 77) Methylester d. 2,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sd. 294—296° (*C.* 1903 [1] 580; *Soc.* 85, 159 *C.* 1904 [1] 724; *M.* 24, 889 *C.* 1904 [1] 512).
 78) Aethoxymethylester d. 2-Oxybenzol-1-Carbonsäure. Sd. 168 bis 169₄₃ (D.R.P. 137585 *C.* 1903 [1] 112).
 79) 2-Oxybenzoat d. $\alpha\alpha$ -Dioxyäthan- α -Methyläther (Methoxyäthyliden-salicylat). Fl. (D.R.P. 146849 *C.* 1903 [2] 1353).
- $C_{10}H_{12}O_5$ *9) 3,4,5-Trioxymethyläther-1-Carbonsäure. Sm. 167—169° (*M.* 25, 511 *C.* 1904 [2] 1118).
 *16) Lakton d. β -Diacetylbernsteinsäuremonoäthylester. Sm. 110° (*B.* 37, 3491 *C.* 1904 [2] 1289).
 *17) Methylester d. 3,4,5-Trioxymethyläther-1-Carbonsäure + H₂O. Sm. 83—84° (106° wasserfrei) (*B.* 36, 217 *C.* 1903 [1] 455).
 *29) Aethylester d. 5-Oxy-1,4-Pyronäthyläther-2-Carbonsäure (*G.* 33 [2] 264 *C.* 1904 [1] 44).
 *31) 2,4,6-Trioxymethyläther-1-Carbonsäure. Sm. 142—144° u. Zers. (*M.* 24, 873 *C.* 1904 [1] 368).
 37) α -Oxy- α -[3,4-Dioxyphenyl]essig-3,4-Dimethyläthersäure. Sm. 105°. K, Ba, Pb, Cu, Ag (*C.* 1904 [1] 511).
 38) Methylester d. 2,3,4-Trioxymethyläther-1-Carbonsäure. Sm. 75—78° (*B.* 36, 660 *C.* 1903 [1] 710; *M.* 25, 509, 511 *C.* 1904 [2] 1118).
 39) Methylester d. 3,4,5-Trioxymethyläther-1-Carbonsäure. Sm. 84° (81—83°) (*B.* 36, 217 *C.* 1903 [1] 455; *B.* 36, 660 *C.* 1903 [1] 710; *M.* 25, 519 *C.* 1904 [2] 1118).
- $C_{10}H_{12}O_6$ 9) cis-Hexahydrobenzol-1,2,4,5-Tetracarbonsäure. Sm. 138—140° (*Soc.* 83, 786 *C.* 1903 [2] 201, 439).
 10) trans-Hexahydrobenzol-1,2,4,5-Tetracarbonsäure. Sm. 175° (*Soc.* 83, 784 *C.* 1903 [2] 201, 439).
- $C_{10}H_{12}N_2$ *18) 1-Methyl-2-[3-Pyridyl]-2,3-Dihydropyrrrol (Dihydrinikotyrin). Sd. 248° (*C. r.* 137, 861 *C.* 1904 [1] 104).
 35) Nitril d. α -[Methylphenylamido]propionsäure. Sm. 212° (*B.* 36, 758 *C.* 1903 [1] 962).
 36) Nitril d. Aethylphenylamidoessigsäure. Sm. 24° (21°); Sd. 183°₂₀ (D.R.P. 142559 *C.* 1903 [2] 81; *B.* 37, 4083 *C.* 1904 [2] 1723).
 37) Nitril d. 2,4-Dimethylphenylamidoessigsäure. Sm. 50—52° (*B.* 37, 4082 *C.* 1904 [2] 1723).
- $C_{10}H_{12}Br_2$ *4) $\alpha\beta$ -Dibrombutylbenzol. Sm. 70—71° (*B.* 36, 774 *C.* 1903 [1] 835).
 *14) 4,6-Dibrom-1,2,3,5-Tetramethylbenzol. Sm. 199° (*B.* 37, 1717 *C.* 1904 [1] 1489).
 *17) $\beta\gamma$ -Dibrombutylbenzol. Fl. (*B.* 37, 2311 *C.* 1904 [2] 216).
 20) 4-[$\alpha\beta$ -Dibromäthyl]-1-Aethylbenzol. Sm. 66° (*B.* 36, 1633 *C.* 1903 [2] 25).
 21) 2-[$\alpha\beta$ -Dibromäthyl]-1,4-Dimethylbenzol. Sm. 55° (*B.* 36, 1639 *C.* 1903 [2] 27).
- $C_{10}H_{13}N$ *13) 1-Methyl-1,2,3,4-Tetrahydrochinolin. Sd. 245,5—247°₇₂. HJ, Pikrat (*B.* 36, 2569 *C.* 1903 [2] 727; *B.* 36, 3799 *C.* 1904 [1] 21).
 34) γ -Amido- α -Phenyl- α -Buten. Sd. 119°₁₂. Oxalat (*B.* 36, 3002 *C.* 1903 [2] 949).
 35) γ -Amido- α -Phenyl- β -Methylpropen. Sd. 230°. (2HCl, PtCl₄) (*C.* 1904 [1] 1496).
 36) γ -[2-Methylphenyl]amidopropen (Allyl-2-Methylphenylamin). Sd. 225 bis 230° (*B.* 37, 3896 *C.* 1904 [2] 1612).
 37) γ -[4-Methylphenyl]amidopropen (Allyl-4-Methylphenylamin). Sd. 232—234°. HCl, Oxalat (*B.* 37, 2720 *C.* 1904 [2] 592).
 38) d-1-Amido-2-Methyl-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat, Ditartrat (*Soc.* 83, 931 *C.* 1903 [2] 505; *Soc.* 85, 171 *C.* 1904 [1] 380, 809).

- C₁₀H₁₃N** 39) 1-1-Amido-2-Methyl-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat, Ditartrat (*Soc.* 83, 930 *C.* 1903 [2] 505; *Soc.* 85, 171 *C.* 1904 [1] 380, 809).
- 40) d-1-1-Amido-2-Methyl-2,3-Dihydroinden. Fl. HCl, (2HCl, PtCl₄), H₂SO₄, Pikrat (*C.* 1901 [2] 421; *Soc.* 83, 916 *C.* 1903 [2] 505; *Soc.* 83, 925 *C.* 1903 [2] 505).
- 41) d-1-neo-1-Amido-2-Methyl-2,3-Dihydroinden. Fl. HCl, H₂SO₄, Pikrat, d-Bromcamphersulfonat (*Soc.* 83, 916 *C.* 1903 [2] 505; *Soc.* 83, 927 *C.* 1903 [2] 505).
- C₁₀H₁₃Cl** 15) α-Chlor-α-Phenylbutan. Sd. 94°₃₀ (*B.* 37, 2312 *C.* 1904 [2] 216).
- 16) β-Chlor-α-Phenyl-β-Methylpropan. Fl. (*B.* 37, 1723 *C.* 1904 [1] 1515).
- C₁₀H₁₄O** *1) α-Oxy-α-Phenylbutan. Sd. 110°₁₅ (*B.* 37, 2312 *C.* 1904 [2] 216).
- *6) 4-Oxy-1-tert. Butylbenzol (*A.* 327, 203 *C.* 1903 [1] 1407; *Soc.* 83, 329 *C.* 1903 [1] 875).
- *26) Methyläther d. 4-Oxy-1-Propylbenzol (*B.* 37, 3987 *C.* 1904 [2] 1639).
- *30) Methyläther d. 4-Oxy-1-Isopropylbenzol. Sd. 212—213°₇₅₆ (*B.* 37, 3996 *C.* 1904 [2] 1640).
- *37) Äthyläther d. 4-Oxy-1-Äthylbenzol. Sd. 208°₇₈₀ (*B.* 36, 3594 *C.* 1903 [2] 1366).
- *50) Eucarvon. Sm. 98—101°₁₇ (*B.* 36, 237 *C.* 1903 [1] 515).
- *58) β-Oxy-α-Phenyl-β-Methylpropan. Sm. 24°; Sd. 214—216° (*C.* 1904 [1] 1496; *B.* 37, 1723 *C.* 1904 [1] 1515).
- 74) 2-[β-Oxyäthyl]-1,4-Dimethylbenzol. Sd. 229°₇₅₉ (*B.* 36, 1639 *C.* 1903 [2] 26).
- 75) isom. γ-Oxy-α-Phenylbutan. Sd. 236—238° (*B.* 37, 2313 *C.* 1904 [2] 217).
- 76) Äthyläther d. 2-Methyl-1-Oxymethylbenzol. Sd. 202—203° (*D. R. P.* 154658 *C.* 1904 [2] 1355).
- 77) Umbellon. Sd. 219—220° (*Soc.* 85, 634 *C.* 1904 [1] 1607 *C.* 1904 [2] 333).
- 78) Keton (aus Pinen). Sd. 206—207°₇₇₄ (*C.* 1903 [2] 372; *Soc.* 83, 1304 *C.* 1904 [1] 95).
- C₁₀H₁₄O₂** *21) β-[3,5-Diketo-4-Methylhexahydrophenyl]propen. Sm. 187—188° (*A.* 330, 266 *C.* 1904 [1] 947).
- 46) γ-Oxy-α-[2-Oxyphenyl]butan. Sm. 65°; Sd. 188—192°₁₅ (*B.* 36, 2871 *C.* 1903 [2] 833).
- 47) αβ-Dioxy-β-[4-Methylphenyl]propan. Sm. 36° (*C. r.* 137, 1261 *C.* 1904 [1] 445).
- 48) 4-Methyläther d. α-Oxy-α-[4-Oxyphenyl]propan. Sd. 140—143°₁₆ (*B.* 37, 4188 *C.* 1904 [2] 1642).
- 49) 3-Methyläther d. 3,5-Dioxy-1-Propylbenzol. Sd. 160—161°₁₇ (*B.* 36, 3449 *C.* 1903 [2] 1176).
- 50) Dimethyläther d. αα-Dioxy-α-Phenyläthan (*B.* 31, 1012). — *III, 91.
- 51) 4-Äthyläther d. 4-Oxy-1-[α-Oxyäthyl]benzol. Sm. 48°; Sd. 140 bis 142°₁₁ (*B.* 36, 3593 *C.* 1903 [2] 1366).
- 52) 4-Keto-6-Oxy-5-Methyl-2-Isopropyliden-1,2,3,4-Tetrahydrobenzol. Sm. 157° (*A.* 330, 272 *C.* 1904 [1] 948).
- 53) Säure (aus Lorbeerblätteröl). Sm. 146—147° (*Ar.* 242, 167 *C.* 1904 [1] 1351).
- 54) Laktone d. δ-Oxy-αζ-Heptadien-δ-[Äthyl-β-Carbonsäure] (Diallyl-butyrolaktone). Sd. 266—267° (*C.* 1904 [1] 1330).
- 55) Methyl ester d. β-Methyl-βζ-Heptenin-γ-Carbonsäure. Sd. 114—125°₂₃ (*C. r.* 136, 554 *C.* 1903 [1] 825).
- C₁₀H₁₄O₃** *13) 2,4-Diketo-6-Oxy-1,1,3,3-Tetramethyl-1,2,3,4-Tetrahydrobenzol. Sm. 190° (*M.* 24, 112 *C.* 1903 [1] 967).
- 39) 3-Methyläther d. 2,3,5-Trioxy-1-Propylbenzol. Sm. 107° (*B.* 36, 1719 *C.* 1903 [2] 114; *Ar.* 242, 347 *C.* 1904 [2] 525).
- 40) 4-Methyläther d. 2,4,5-Trioxy-1-Propylbenzol. Sm. 92° (*B.* 36, 859 *C.* 1903 [1] 1084).
- 41) 5-Acetyl-6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 36°; Sd. 127—128°₁₄. Cu (*B.* 37, 3380 *C.* 1904 [2] 1219).
- 42) 6-Methyläther d. 4,6-Dioxy-2-Keto-1,1,5-Trimethyl-1,2-Dihydrobenzol. Sm. 179—180° (*M.* 24, 110 *C.* 1903 [1] 967).
- 43) Säure (aus d. Verb. C₁₀H₁₆O₂). Sm. 197—198° (*B.* 37, 1034 *C.* 1904 [1] 1262).

- C₁₀H₁₄O₃** 44) Anhydrid d. $\beta\epsilon$ -Dimethyl- γ -Hexen- $\beta\epsilon$ -Dicarbonsäure. Sd. 116—120°₂₀ (Soc. 83, 1385 C. 1904 [1] 434).
 45) Anhydrid d. Homotanacetondicarbonsäure. Sd. 157—158°₁₅ (B. 36, 4369 C. 1904 [1] 455).
- C₁₀H₁₄O₄** 46) Acetat d. 6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sd. 144°₁₈ (B. 37, 3379 C. 1904 [2] 1219).
 *41) Säure (aus Citral). Sm. 192—194° (C. 1903 [2] 1081).
 43) $\beta\beta$ -Dioxyisopropylphenylketon + H₂O. Sm. 116° (B. 36, 1356 C. 1903 [1] 1299).
 44) $\beta\epsilon$ -Dimethyl- $\beta\delta$ -Hexadien- $\gamma\delta$ -Dicarbonsäure. Sm. 231° u. Zers. K₂₃, Ag₂ (J. pr. [2] 67, 197 C. 1903 [1] 869).
 45) r-Dehydrocamphersäure. Sm. 221—223° (B. 36, 4334 C. 1904 [1] 456).
 46) Säure (aus 2,3,4,5-Tetrahydro-R-Hepten-6-Carbonsäureäthylester). Sm. 231° (B. 37, 936 C. 1904 [1] 1072).
 47) isom. Säure (aus 2,3,4,5-Tetrahydro-R-Hepten-6-Carbonsäureäthylester). Sm. 132° (B. 37, 936 C. 1904 [1] 1072).
- C₁₀H₁₄O₅** *12) Diäthylester d. α -Keto- β -Buten- $\alpha\gamma$ -Dicarbonsäure. Sd. 182—184°₃₈ (B. 23, 151 C. 1904 [2] 194).
 19) γ -Oxy- $\beta\epsilon$ -Diketo- $\gamma\delta$ -Diacetylhexan. Sm. 112° (B. 36, 3227 C. 1903 [2] 940).
- C₁₀H₁₄O₆** 25) Anemonolsäure. Sm. 151—153° (M. 20, 640). — *III, 456.
C₁₀H₁₄O₇ 3) Acetat d. Formalmethylenfruktosid. Fl. (R. 22, 163 C. 1903 [2] 108).
C₁₀H₁₄O₈ *1) Hexan- $\alpha\gamma\delta\zeta$ -Tetracarbonsäure. Ag₄ (C. 1903 [1] 628; Soc. 85, 614 C. 1904 [1] 1553).
 11) Glutarperoxyd. Sm. 108° u. Zers. (Am. 32, 65 C. 1904 [2] 766).
- C₁₀H₁₄N₂** *11) 5,8-Diamido-1,2,3,4-Tetrahydronaphtalin (Soc. 85, 754 C. 1904 [2] 448).
 *21) d-1-Methyl-2-[3-Pyridyl]tetrahydropyrrol (Nikotin). Tartrat (C. 1903 [2] 123; C. r. 137, 862 C. 1904 [1] 104; Ph. Ch. 47, 113 C. 1904 [1] 589; B. 37, 1232 C. 1904 [1] 1278; B. 37, 2429 C. 1904 [2] 442).
 *30) Nitril d. Camphersäure (C. 1903 [1] 837).
 *33) 1-Nikotin. Sd. 242—243°. (2HCl, PtCl₄ + H₂O) (C. r. 137, 862 C. 1904 [1] 104; B. 37, 1227 C. 1904 [1] 1278).
 37) 1-Nikotin. Tartrat (C. r. 137, 862 C. 1904 [1] 104; B. 37, 1230 C. 1904 [1] 1278).
- C₁₀H₁₅N** *47) Nitril d. r- α -Campholensäure. Sd. 228° (C. r. 138, 696 C. 1904 [1] 1087).
 61) γ -Amidobutylbenzol. Sd. 221—222°₇₅₀. HCl, H₃PO₄, Oxalat (B. 36, 2999 C. 1903 [2] 949).
 62) 2-Methylamido-1,3,5-Trimethylbenzol. Sd. 228—229°₇₃₀ (A. 327, 110 C. 1903 [1] 1213).
 63) 4-Methyläthylamido-1-Methylbenzol (Methyläthyl-4-Methylphenylamin). Sd. 218—220°. Pikrat (B. 37, 2716 C. 1904 [2] 591).
 64) Nitril d. 1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol-5-Carbonsäure? Sd. 220—221°₇₆₀ (D.R.P. 141699 C. 1903 [1] 1245).
- C₁₀H₁₆O** *7) d-Campher (C. 1903 [1] 1223; B. 37, 511 C. 1904 [1] 884).
 *19) Dihydrocarboxyd (Isodihydrocarvon). Sd. 199° (B. 36, 765 C. 1903 [1] 836).
 *21) d-Fenchon (C. 1904 [1] 282).
 *26) Myristicol (C. 1904 [1] 593).
 *30) 3-Keto-4-Isopropyliden-1-Methylbenzol (Pulegon) (A. 329, 108 C. 1903 [2] 1071).
 *56) β -Cyklocitral (D.R.P. 138141 C. 1903 [1] 267; D.R.P. 139957 C. 1903 [1] 857).
 *68) Aldehyd d. Camphenilansäure (Camphenol). Sm. 68—70° (H. 37, 197 C. 1903 [1] 594).
 *71) α -Cyklocitral. Sd. 90—95°₂₀ (D.R.P. 138141 C. 1903 [1] 267; D.R.P. 139957 C. 1903 [1] 857).
 81) Alkohol (aus Gingergrasöl). Sd. 92—93° (C. 1904 [1] 1264).
 82) 3-Keto-5-Isopropyl-2-Methyl-1,2,3,4-Tetrahydrobenzol (Menthen-3-on[5]). Sd. 206—208° (B. 28, 1587; Am. 16, 395; 18, 762; A. 305, 272). — *III, 385.
 83) 4-Keto-5-Isopropyl-2-Methyl-1,2,3,4-Tetrahydrobenzol (Menthenon) (C. 1903 [2] 1373).

$C_{10}H_{16}O$

- 84) 1-4-Keto-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol (l-Carvotanacetone). *Sd.* 227—229° (*A.* 336, 37 *C.* 1904 [2] 1468).
 85) Camphenol. *Sd.* 202—204° (*H.* 33, 579). — *III, 397.
 86) Calaminthion. *Sd.* 208—209°₇₄₅ (*C. r.* 136, 388 *C.* 1903 [1] 714).
 87) Keton (aus Bromumbellulon). *Sd.* 214—217° (*Soc.* 85, 643 *C.* 1904 [1] 1607; *C.* 1904 [2] 330).
 88) Aldehyd d. Cyklogeraniolencarbonsäure. *Sd.* 101—102° (*D.R.P.* 141973 *C.* 1903 [2] 78).
 89) Aldehyd d. isom. Cyklygeraniolencarbonsäure. *Sd.* 87—88°₁₀ (*D.R.P.* 142139 *C.* 1903 [2] 78).
 90) Aldehyd d. Säure $C_{10}H_{16}O_2$ (aus Pinen). *Sm.* 32—33°; *Sd.* 205—207°₇₅₅ (*C.* 1903 [2] 372; *Soc.* 83, 1302 *C.* 1904 [1] 95).
 91) Verbindung (aus d-Pinen u. Chloraceton). *Sd.* 290° (*G.* 33 [1] 395 *C.* 1903 [2] 571).

 $C_{10}H_{16}O_2$

- *20) r- α -Campholensäure. *Sd.* 184° (*C. r.* 138, 696 *C.* 1904 [1] 1087).
 *27) α -Pulegensäure (*A.* 327, 125, 147 *C.* 1903 [1] 1412).
 *45) Isocamphenilansäure. *Sm.* 117—118° (*H.* 37, 198 *C.* 1903 [1] 594).
 *60) 6-Oxy-4-Keto-5-Methyl-2-Isopropyl-1,2,3,4-Tetrahydrobenzol. *Sd.* 164,5—165° (*B.* 36, 3575 *C.* 1903 [2] 1362).
 74) 2,3-Diketo-4-Isopropyl-1-Methylhexahydrobenzol. *Sm.* 80—81°; *Sd.* 125—127°₁₈ (*C.* 1904 [2] 1044).
 75) isom. Oxyfenchon (*C.* 1904 [1] 282).
 76) 5-Oxy-7-Keto-1-Methylbicyclo-[1,3,3]-Nonan. *Sd.* 170—173°₁₇₋₁₈ (*B.* 37, 1672 *C.* 1904 [1] 1606).
 77) α -Heptadien- δ -[Aethyl- β -Carbonsäure] ($\gamma\gamma$ -Diallylbuttersäure). *Sd.* 264—267°. *Na*, *Ag* (*C.* 1904 [1] 1330).
 78) α -Nonin- α -Carbonsäure. *Sm.* 6—10°; *Sd.* 164—168°₂₀ (*C. r.* 136, 554 *C.* 1903 [1] 825).
 79) 1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure? *Sd.* 140—142°₁₅ (*D.R.P.* 148206 *C.* 1904 [1] 486).
 80) 1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol-5-Carbonsäure? *Sm.* 140°; *Sd.* 154°₁₆ (*D.R.P.* 141699 *C.* 1903 [1] 1245).
 81) Säure (aus Pinen). *Sm.* 117°. *Pb*, *Ag* (*C.* 1903 [2] 372; *Soc.* 83, 1304 *C.* 1904 [1] 95).
 82) Lakton d. cis-5-Oxy-1,1,3-Trimethylhexahydrobenzol-2-Carbonsäure. *Sm.* 57°; *Sd.* 122—123° (*D.R.P.* 148207 *C.* 1904 [1] 487).
 83) Lakton (aus Pulegensäure). *Sm.* 30—31°; *Sd.* 126—128°₁₂ (*A.* 327, 128 *C.* 1903 [1] 1412).
 84) Methyl ester d. ζ -Methyl- α -Heptin- α -Carbonsäure. *Sd.* 125—127°₃₁ (*C. r.* 136, 554 *C.* 1903 [1] 825).
 85) Aethyl ester d. ϵ -Methyl- α -Hexin- α -Carbonsäure. *Sd.* 110—112°₁₈ (*C. r.* 136, 553 *C.* 1903 [1] 825).
 86) Aethyl ester d. $\beta\delta$ -Dimethyl- $\alpha\gamma$ -Pentadien- α -Carbonsäure. *Sd.* 94°₁₄ (*B.* 36, 16 *C.* 1903 [1] 387).
 87) Aethyl ester d. 2,3,4,5-Tetrahydro-R-Hepten-6-Carbonsäure. *Sd.* 108°₁₄ (*B.* 37, 934 *C.* 1904 [1] 1072).
 88) Aethyl ester d. 5-Methyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure. *Sd.* 155—157°₁₀₀ (*Soc.* 85, 664 *C.* 1904 [2] 330).
 89) Isobutylester d. γ -Methyl- α -Butin- α -Carbonsäure. *Sd.* 99—101°₁₉ (*C. r.* 136, 553 *C.* 1903 [1] 824).
 90) Verbindung (aus Camphen). *Sm.* 169—170° (*B.* 37, 1034 *C.* 1904 [1] 1262).

 $C_{10}H_{16}O_3$

- *15) Flüssige Pinonsäure (*B.* 37, 239 *C.* 1904 [1] 726).
 *32) Oxy-lakton (aus Pulegensäure). *Sm.* 129—130° (*A.* 327, 127 *C.* 1903 [1] 1412).
 58) Barringtogenin. *Sm.* 169—170° (*C.* 1903 [2] 842).
 59) δ -Oxy- $\alpha\zeta$ -Heptadien- δ -[Aethyl- β -Carbonsäure]. *Ca*, *Ba* (*C.* 1904 [1] 1330).
 60) 5-Oxy-1,3-Dimethylhexahydrobenzol-1,5-Dicarbonsäure. *Sm.* 182—183° (wasserfrei) (*B.* 37, 4064 *C.* 1904 [2] 1650; *B.* 37, 4072 *C.* 1904 [2] 1652).
 61) Oxydihydro- β -Camphylmethyläthersäure. *Sm.* 94°. *Ag* (*Soc.* 83, 869 *C.* 1903 [2] 574).

- $C_{10}H_{16}O_3$ 62) α -[3-Keto-4-Methylhexahydrophenyl]propionsäure (B. 36, 769 C. 1903 [1] 836).
 63) Anhydrid d. β -Methylheptan- $\gamma\zeta$ -Dicarbonsäure. Fl. (C. 1904 [2] 1044).
 64) Methylester d. 3-Keto-1-Methyl-2-Aethyl-R-Pentamethylen-2-Carbonsäure. Sd. 108—110°₁₀ (C. r. 138, 210 C. 1904 [1] 663).
 65) Aethylester d. 5-Keto-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sd. 170—172°₁₀₀ (C. 1903 [1] 923; Soc. 85, 138 C. 1904 [1] 728).
 66) Aethylester d. 3-Keto-1,2-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sd. 112—113°₁₅ (C. r. 138, 210 C. 1904 [1] 663).
- $C_{10}H_{16}O_4$ *3) r-Camphersäure. Sm. 200—202° (B. 36, 4335 C. 1904 [1] 456).
 *18) Homotanacetondicarbonsäure. Sm. 148°. Ag₂ (B. 36, 4368 C. 1904 [1] 455).
 *38) Diäthylester d. β -Buten- $\beta\gamma$ -Dicarbonsäure. Sd. 234—236° (B. 37, 1272 C. 1904 [1] 1334).
 *61) Aethylester d. $\gamma\epsilon$ -Diketo- β -Methylhexan- δ -Carbonsäure (Ac. d. Isobutyrylacetessigsäure). Sd. 93—94°₁₈ (Bl. [3] 27, 1092 C. 1903 [1] 226).
 77) ϵ -Methyl- α -Hepten- $\delta\eta$ -Dicarbonsäure. Sm. 104° (C. r. 138, 211 C. 1904 [1] 663).
 78) ζ -Methyl- α -Hepten- $\delta\eta$ -Dicarbonsäure (γ -Methyl- α -Allyladipinsäure). Sm. 100°; Sd. 235°₂₀ (C. r. 136, 1614 C. 1903 [2] 440).
 79) $\beta\epsilon$ -Dimethyl- γ -Hexen- $\beta\epsilon$ -Dicarbonsäure. Sm. 70°. Ag₂ (Soc. 83, 1384 C. 1904 [1] 159, 434).
 80) Säure (aus $\beta\epsilon$ -Dimethyl- γ -Hexen- $\beta\epsilon$ -Dicarbonsäure). Sm. 60—61°. Ag₂ (Soc. 83, 1386 C. 1904 [1] 434).
 81) Säure (aus d. Verb. $C_{10}H_{16}O_2$). Sm. 203° (B. 37, 1034 C. 1904 [1] 1262).
 82) Methylester d. γ -Butyroxyl- β -Buten- β -Carbonsäure (M. d. O-Methylbutyrylacetessigsäure). Sd. 122—130°₂₀ (Bl. [3] 27, 1103 C. 1903 [1] 227).
 83) Methylester d. $\beta\delta$ -Diketo- γ -Methylheptan- γ -Carbonsäure (M. d. Methylbutyrylacetessigsäure). Sd. 122—130°₂₀ (Bl. [3] 27, 1103 C. 1903 [1] 227).
 84) Diäthylester d. β -Buten- $\alpha\delta$ -Dicarbonsäure. Sd. 120—125°₁₇ (Soc. 85, 612 C. 1904 [1] 1254, 1553).
 85) Diäthylester d. trans-1-Methyl-R-Trimethylen-2,3-Dicarbonsäure. Sd. 198—200°₁₄ (J. pr. [2] 68, 160 C. 1903 [2] 759).
- $C_{10}H_{16}O_5$ *15) Diäthylester d. Oxyfumaräthyläthersäure. Sd. 138°₁₁ (Soc. 83, 417 C. 1903 [1] 834).
 29) isom. Oxycamphersäure. Ag₂ (Am. 28, 481 C. 1903 [1] 329).
 30) Dimethylester d. γ -Ketoheptan- $\alpha\beta$ -Dicarbonsäure (D. d. Butyrylbernsteinsäure). Sd. 153—154°₂₅ (Bl. [3] 27, 1093 C. 1903 [1] 226).
 31) Diäthylester d. α -Oxy- α -Buten- $\beta\gamma$ -Dicarbonsäure. Sd. 150°₁₂ (B. 37, 1611 C. 1904 [1] 1402).
 32) Diäthylester d. Butan- $\beta\gamma$ -Dicarbonsäure- α -Carbonsäurealdehyd. Fl. (B. 37, 1612 C. 1904 [1] 1402).
- $C_{10}H_{16}O_6$ 22) Dioxycamphersäure. Fl. (B. 36, 4333 C. 1904 [1] 456).
 23) Verbindung (aus Äthylloxalylechlorid). Sd. 246—248°₇₅₀ (C. r. 136, 1200 C. 1903 [2] 22).
- $C_{10}H_{16}O_7$ 9) Trimethylester d. β -Oxypropanmethylläther- $\alpha\beta\gamma$ -Tricarbonsäure (Tr. d. Methylcitronensäure). Sd. 159—160°₁₂ (A. 327, 228 C. 1903 [1] 1403).
- $C_{10}H_{16}N_2$ *4) 2,5-Diamido-4-Isopropyl-1-Methylbenzol. 2HCl (A. 336, 22 C. 1904 [2] 1467).
 *12) 1,4-Di[Dimethylamido]benzol. Sm. 51° (B. 36, 2979 C. 1903 [2] 980).
 24) $\alpha\beta$ -Diäthyl- α -Phenylhydrazin. Sd. 111—115°₁₂ (C. 1903 [1] 1128; B. 35, 4185 C. 1903 [1] 143).
- $C_{10}H_{16}Cl_2$ 7) Dichlordekahydronaphtalin. Sd. 145—148°₁₈ (C. r. 139, 674 C. 1904 [2] 1654).
 8) i-Dichlorid d. Kohlenw. $C_{10}H_{16}$ (aus Fenchylchlorid). Sm. 49—51° (J. pr. [2] 68, 109 C. 1903 [2] 722).
- $C_{10}H_{16}Br_2$ *3) Pinendibromid. Sm. 167—168° (C. r. 137, 131 C. 1903 [2] 571).
 7) Phellandrendibromid (B. 36, 1754 C. 1903 [2] 117).
 8) Dibromid d. Terpen $C_{10}H_{16}$. Fl (Soc. 83, 1096 C. 1903 [2] 794).

- $C_{10}H_{16}Br_2$ 13) Verbindung (aus Guttapercha) oder $C_{17}H_{27}Br_7$. Zers. bei 120° (C. 1903 [1] 83).
- $C_{10}H_{16}S$ *1) Thioampher. Sm. 119° ; Sd. $228-230^\circ_{761}$ u. Zers. (B. 36, 868 C. 1903 [1] 972).
- $C_{10}H_{17}N$ 23) Nitril d. α -Dihydrocampholensäure. Sd. $225-228^\circ$ (C. r. 136, 1143 C. 1903 [1] 1410).
- $C_{10}H_{17}Cl$ *29) sec. Fenchylchlorid. Sm. 75° ; Sd. $83-84^\circ_{18}$ (J. pr. [2] 68, 107 C. 1903 [2] 722).
- 30) Chlordekahydronaphtalin. Sd. $112-115^\circ_{18}$ (C. r. 139, 674 C. 1904 [2] 1654).
- $C_{10}H_{17}J$ 31) Chlorid d. d-Fenchylalkohol. Sd. $105-110^\circ$ (C. r. 126, 756). — *III, 343.
- *2) Bornyljodid (l-Pinenhydrojodid) (B. 35, 4417 C. 1903 [1] 330).
- 6) Isobornyljodid (B. 32, 2320). — *III, 398.
- 7) Camphenhydrojodid. Sm. $48-55^\circ$ (C. 1901 [1] 629; J. pr. [2] 68, 535; Ch. Z. 25, 132). — *III, 398.
- 8) isom. Camphenhydrojodid. Fl. (C. 1901 [1] 629; J. pr. [2] 68, 535).
- 9) i-Pinenhydrojodid (i-Bornyljodid) (B. 32, 2317). — *III, 393.
- $C_{10}H_{18}O$ *9) Cineol (Cajeputol). Sd. 174° (G. 33 [1] 401 C. 1903 [2] 571; Ar. 242, 181 C. 1904 [1] 1350).
- *22) Geraniol (J. pr. [2] 66, 498 C. 1903 [1] 516).
- *28) l-Linalool (J. pr. [2] 66, 493 C. 1903 [1] 516).
- *32) l-Menthon (B. 36, 273 C. 1903 [1] 440).
- *42) i-Terpineol (5-Methyl-2- α -Oxyisopropyl-1,2,3,4-Tetrahydrobenzol). Sd. $134-135^\circ$ (Soc. 85, 666 C. 1904 [2] 330).
- *44) d-Terpineol (J. pr. [2] 66, 497 C. 1903 [1] 516).
- *53) δ -Oxy- δ -Propyl- α -Heptadien (C. 1903 [2] 1415).
- *66) ϵ -Keto- $\beta\gamma\zeta$ -Trimethyl- γ -Hepten. Sd. $189-191^\circ$ (C. 1903 [2] 656).
- *70) Diisovaleraldehyd. Sd. 86°_{18} (M. 25, 153 C. 1904 [1] 1000).
- *76) l-Linalool (Soc. 83, 509 C. 1903 [1] 1029).
- *81) β -[4-Oxy-4-Methylhexahydrophenyl]propen. Sd. $125-127^\circ_{80}$ (Soc. 85, 671 C. 1904 [2] 331).
- 88) δ -Oxy- $\beta\delta\zeta$ -Trimethyl- $\beta\epsilon$ -Heptadien. Sm. $57,5^\circ$; Sd. $43-46^\circ_{0,25}$ (B. 37, 3579 C. 1904 [2] 1376).
- 89) l,1,5-Trimethyl-4-[β -Oxyäthyl]-2,3-Dihydro-R-Penten (Campholenalkohol). Sd. $215-216^\circ_{760}$ (C. r. 138, 280 C. 1904 [1] 725).
- 90) Allyläther d. l-3-Oxy-1-Methylhexahydrobenzol. Sd. $79-81^\circ_{18}$ (C. r. 138, 1666 C. 1904 [2] 441).
- 91) Apopinol. Sd. 200° (C. 1904 [1] 1263).
- 92) Campholenyloxyd. Sd. $180-182^\circ_{760}$ (C. r. 138, 281 C. 1904 [1] 725).
- 93) Cyklogeraniol. Sd. $95-100^\circ_{12}$ (D.R.P. 138141 C. 1903 [1] 266).
- 94) d-Isoborneol (J. pr. [2] 55, 34). — *III, 340.
- 95) l-Isoborneol (J. pr. [2] 55, 34). — *III, 340.
- 96) isom. Isofenchylalkohol. Sm. $61,5^\circ$ (J. pr. [2] 65, 229). — *III, 344.
- 97) Nerol. Sd. $225-227^\circ_{735}$ (J. pr. [2] 66, 501 C. 1903 [1] 517; B. 36, 265 C. 1903 [1] 585; C. 1903 [2] 877, 1081; B. 37, 1094 C. 1904 [1] 1265; D.R.P. 150495 C. 1904 [2] 69). — *III, 350.
- 98) isom. Terpeneol (Soc. 85, 1329 C. 1904 [2] 1652).
- 99) Alkohol (aus Camphenylon). Sm. $117,5-118^\circ$; Sd. $204-206^\circ$ (B. 37, 1037 C. 1904 [1] 1263).
- 100) ζ -Keto- δ -Methyl- δ -Nonen. Sd. $196-200^\circ$ (C. 1903 [2] 656).
- 101) l-P-Menthon. Sd. $94-95^\circ_{18}$ (C. 1904 [2] 1045).
- 102) Keton (aus Buccoblätteröl). Sd. $208,5-209,5^\circ_{760}$ (J. pr. [2] 54, 438; [2] 63, 54). — *III, 408.
- 103) Aldehyd d. $\beta\zeta$ -Dimethyl- β -Hepten- η -Carbonsäure (Rhodinal) (C. r. 122, 737). — *III, 350.
- $C_{10}H_{18}O_2$ *3) Camphenglykol. Sm. $199-200^\circ$ (B. 37, 1035 C. 1904 [1] 1262).
- *22) i-Citronellalsäure (Rhodinsäure). Sd. 146°_{10} (C. r. 138, 1700 C. 1904 [2] 440).
- 58) 5,7-Dioxy-1-Methylbicyclo-[1,3,3]-Nonan. Sm. $124-125^\circ$ (B. 37, 1673 C. 1904 [1] 1607).
- 59) ϵ -Aethyläther d. $\delta\epsilon$ -Dioxy- δ -Allyl- α -Penten. Sd. $101-102^\circ_{25}$ (C. r. 138, 91 C. 1904 [1] 505).
- 60) 2-Keto-1-Methyl-4-[α -Oxyisopropyl]hexahydrobenzol (8-Oxytetrahydrocarvon). Fl. (B. 28, 1590; 29, 15). — *III, 353.

- $C_{10}H_{16}O_2$ 61) *r*-**α**-Dihydrocampholensäure. *Sd.* 258° (*C. r.* 136, 1143 *C.* 1903 [1] 1410).
 62) Säure (aus Naphta). *Sd.* 132—145° (*C.* 1903 [1] 1134).
 63) Acetat d. 1-Oxy-1-Aethylhexahydrobenzol. *Sd.* 190°₁₆₀ (*C. r.* 138, 1323 *C.* 1904 [2] 219).
- $C_{10}H_{16}O_3$ *55) **α**-Keto-**β**-Methyloktan-**α**-Carbonsäure. *Sd.* 124—125° (*Bl.* [3] 31, 1153 *C.* 1904 [2] 1707).
 *58) Aethylester d. **δ**-Oxy-**β**-Hepten-**ε**-Carbonsäure. *Sd.* 128—130°₁₅ (*C.* 1903 [2] 556).
 *59) Aethylester d. **δ**-Oxy-**ε**-Methyl-**β**-Hexen-**ε**-Carbonsäure. *Sd.* 118 bis 120°₁₇ (*C.* 1903 [2] 556).
 *60) Aethylester d. **β**-Ketoheptan-**α**-Carbonsäure. *Sd.* 116—117°₂₀ (*Bl.* [3] 31, 597 *C.* 1904 [2] 26).
 65) 2-Keto-4-[**α**-**β**-Dioxyisopropyl]-1-Methylhexahydrobenzol (Keto-glykol). *Sm.* 115—120°; *Sd.* 200°₁₀₀ (*B.* 28, 2705). — *III, 375.
 66) **β**-Oxy-**α**-Oktenmethyläther-**α**-Carbonsäure. *Sm.* 55,5° (*C. r.* 138, 287 *C.* 1904 [1] 719).
 67) **β**-Oxy-**α**-Heptenäthyläther-**α**-Carbonsäure. *Sm.* 74° (*C. r.* 138, 287 *C.* 1904 [1] 719).
 68) **α**-[3-Oxy-4-Methylhexahydrophenyl]propionsäure. *Ag* (*B.* 36, 769 *C.* 1903 [1] 836).
 69) *cis*-5-Oxy-1,1,3-Trimethylhexahydrobenzol-2-Carbonsäure. *Sm.* 141—143° (*D.R.P.* 148207 *C.* 1904 [1] 487).
 70) *trans*-5-Oxy-1,1,3-Trimethylhexahydrobenzol-2-Carbonsäure. *Sm.* 151—153° (*D.R.P.* 148207 *C.* 1904 [1] 487).
 71) *cis*-5-Oxy-1,1,3-Trimethylhexahydrobenzol-5-Carbonsäure. *Sm.* 113° (*D.R.P.* 141699 *C.* 1903 [1] 1245).
 72) *trans*-5-Oxy-1,1,3-Trimethylhexahydrobenzol-5-Carbonsäure. *Sm.* 130° (*D.R.P.* 141699 *C.* 1903 [1] 1245).
 73) Methyl ester d. **β**-Oxy-**α**-Heptenmethyläther-**α**-Carbonsäure. *Sd.* 232 bis 233° (*C. r.* 138, 208 *C.* 1904 [1] 659; *Bl.* [3] 31, 511 *C.* 1904 [1] 1602).
 74) Verbindung (aus **δ**-Oxy-**β**-**δ**-Trimethyl-**β**-**ε**-Heptadien). *Fl.* (*B.* 37, 3580 *C.* 1904 [2] 1376).
- $C_{10}H_{18}O_4$ *5) Sebacinsäure (*C.* 1903 [2] 1330).
 *33) Diäthylester d. Butan-**α**-**δ**-Dicarbonsäure. *Sd.* 130°₁₄ (*Bl.* [3] 29, 1044 *C.* 1903 [2] 1424).
 70) Oktan-**α**-**α**-Dicarbonsäure. *Sm.* 95° u. *Zers.* Ba + 3 H₂O (*C.* 1904 [1] 880).
 71) **β**-Methylheptan-**γ**-**ζ**-Dicarbonsäure. *Sm.* 105—106°; *Sd.* 218—220° u. *Zers.* Cu (*C.* 1904 [2] 1044).
 72) **γ**-Methylheptan-**α**-**δ**-Dicarbonsäure. *Sm.* 110° (*C. r.* 138, 211 *C.* 1904 [1] 663).
 73) Aethylester d. **α**-Acetoxyl-**β**-Methylbutan-**β**-Carbonsäure. *Sd.* 113°₂₀ (*Bl.* [3] 31, 322 *C.* 1904 [1] 1134).
 74) Isobutylester d. **α**-1-Propionoxylpropionsäure. *Sd.* 97,5—100°₁₁ (*C.* 1903 [2] 1419).
 75) Diacetat d. **α**-**ζ**-Dioxyhexan. *Sm.* 5°; *Sd.* 262°₇₈₅ (*C. r.* 136, 245 *C.* 1903 [1] 583).
- $C_{10}H_{18}O_5$ 22) Diäthylester d. **α**-Oxybutan-**α**-**β**-Dicarbonsäure. *Sd.* 133—135°₁₂ (*B.* 37, 2382 *C.* 1904 [2] 306).
- $C_{10}H_{18}O_6$ *4) Dipropylester d. **d**-Weinsäure. *Sd.* 171—172°₁₇ (*Soc.* 85, 767 *C.* 1904 [2] 512).
 9) **γ**-**δ**-Dioxy-**β**-**ε**-Dimethylhexan-**β**-**ε**-Dicarbonsäure. *Sm.* 129—130° (*Soc.* 83, 1386 *C.* 1904 [1] 159, 434).
 10) Lakton d. Glykontetramethyläthersäure. *Fl.* (*Soc.* 83, 1033 *C.* 1903 [2] 346, 659).
- $C_{10}H_{16}O_6$ 5) Phaseolunatinsäure (*C.* 1903 [2] 1334).
 $C_{10}H_{18}Cl_2$ *23) Terpendihydrochlorid (aus Kautschuk) (*B.* 37, 2433 *C.* 1904 [2] 334).
 $C_{10}H_{18}Br_2$ *3) *trans*-1,4-Dibrom-4-Isopropyl-1-Methylhexahydrobenzol. *Sm.* 58 bis 59° (*B.* 37, 1483 *C.* 1904 [1] 1349).
 *11) Dibromid (aus 1-Fenchylalkohol). *Sm.* 49° u. 52,5° (*J. pr.* [2] 68, 111 *C.* 1903 [2] 722).
 12) Dihydrobromid d. Kohlenw. C₁₀H₁₆ (aus Fenchylchlorid) (*J. pr.* [2] 68, 110 *C.* 1903 [2] 722).

- $C_{10}H_{18}S$ 1) Merkaptoborneol. Sm. 61—62°; Sd. 224—225°₇₆₀. Pb, Hg (*B. 36*, 869 *C. 1903* [1] 972).
- $C_{10}H_{19}N$ *6) Bornylamin. H_3PO_4 , CHNS (*Soc. 85*, 1194 *C. 1904* [2] 1125).
- 27) sec. i-Amidodihydrocamphen. Sm. 65—130°; Sd. 194—204°. (2HCl, PtCl₄) (*C. 1903* [1] 512).
- $C_{10}H_{19}Cl$ 8) Chlormenthan. Sd. 94—95°₁₅ (*C. 1904* [1] 1348).
- 9) sec. 1-Menthylchlorid. Sd. 113,5—114,5° (*C. 1897* [1] 1058; *1901* [2] 347). — *III, 333.
- $C_{10}H_{19}Br$ *2) act. Menthylbromid. Sd. 104—106°₁₅ (*J. pr.* [2] 67, 193 *C. 1903* [1] 713; *B. 35*, 4416 *C. 1903* [1] 330).
- 5) p-4-Brommenthan. Sd. 110—111°₁₅ (*C. 1904* [1] 1347).
- 6) isom. act. Menthylbromid. Sd. 103—105°₁₈ (*J. pr.* [2] 67, 194 *C. 1903* [1] 713).
- 7) i-Menthylbromid. Sd. 98—99°₁₁ (*J. pr.* [2] 67, 195 *C. 1903* [1] 713).
- $C_{10}H_{19}J$ 3) i-Menthyljodid (*J. pr.* [2] 63, 63). — *III, 336.
- $C_{10}H_{20}O$ *10) 2-Oxy-4-Isopropyl-1-Methylhexahydrobenzol (Hexahydrocarvakrol). Sd. 218—219° (*C. r. 137*, 1269 *C. 1904* [1] 454).
- *23) δ -Oxy- δ -Propyl- α -Hepten (*C. 1903* [2] 1415).
- 47) 3-Oxy-4-Isopropyl-1-Methylhexahydrobenzol (Hexahydrothymol). Sd. 214° (*C. r. 137*, 1269 *C. 1904* [1] 454).
- 48) d-Menthol. Sm. 38,5—39° (*J. pr.* [2] 63, 56). — *III, 336.
- 49) i-Menthol. Sm. 49—51° (*J. pr.* [2] 55, 30). — *III, 336.
- 50) isom. i-Menthol. Sd. 215—216°₇₈₅ (*J. pr.* [2] 63, 61). — *III, 336.
- 51) r-Rhodinol. Sd. 110°₁₀ (*C. r. 138*, 1701 *C. 1904* [2] 440).
- 52) Tetrahydroumbellulol. Sd. 207—208°₇₆₀ (*Soc. 85*, 644 *C. 1904* [1] 1608 *C. 1904* [2] 330).
- 53) 1-Oxy-1-Isobutylhexahydrobenzol. Sd. 102°₂₀ (*C. r. 138*, 1322 *C. 1904* [2] 219).
- 54) 2-Oxymethyl-1,1,2,5-Tetramethyl-R-Pentamethylen (Campholalkohol). Sm. 60°; Sd. 213° (*Bl.* [3] 31, 750 *C. 1904* [2] 303).
- 55) Alkohol (aus Hydroxylnitrosamidomenthen). Sd. 119—125°₁₉ (*B. 36*, 490 *C. 1903* [1] 637).
- 56) Propyläther d. β -Oxy- α -Hepten. Sd. 181—182° (*C. r. 138*, 287 *C. 1904* [1] 719; *Bl.* [3] 31, 524 *C. 1904* [1] 1552).
- 57) $\beta\gamma\delta\epsilon$ -Tetramethylhexan- $\gamma\delta$ -Oxyd. Sd. 185—193° (*C. 1903* [2] 23).
- 58) Aldehyd d. Nonan- β -Carbonsäure. Sd. 98—100°₂₀ (*C. r. 138*, 92 *C. 1904* [1] 505).
- 59) Aldehyd d. β -Methyloktan- ϵ -Carbonsäure. Sd. 195—198° (*C. r. 138*, 92 *C. 1904* [1] 505).
- 60) Aldehyd d. $\beta\zeta$ -Dimethylheptan- δ -Carbonsäure. Sd. 185—186° (*C. r. 138*, 91 *C. 1904* [1] 505; *Bl.* [3] 31, 306 *C. 1904* [1] 1133).
- 61) Verbindung (aus d. Glykol $C_{10}H_{22}O_2$). Sd. 108—112° (*M. 24*, 581 *C. 1903* [2] 870).
- 62) Verbindung (aus d. Glykol $C_{10}H_{22}O_2$). Sd. 171° (*M. 24*, 583 *C. 1903* [2] 870).
- $C_{10}H_{20}O_2$ *12) Aldehyd d. δ -Oxy- $\beta\zeta$ -Dimethylheptan- γ -Carbonsäure. Sm. 83—84°; Sd. 200° (*B. 5*, 481; *6*, 983; *8*, 369, 414; *M. 25*, 1038 *C. 1904* [2] 1599). — I, 950.
- *30) norm. Oktylester d. Essigsäure. Sd. 98°₁₅ (*C. r. 136*, 1677 *C. 1903* [2] 419).
- 55) 5-Oxy-2-Oxymethyl-1,1,3-Trimethylhexahydrobenzol. Sm. 92 bis 93°; Sd. 152°₈ (*D.R.P.* 148207 *C. 1904* [1] 487).
- 56) 2-Oxy-1,1,2-Trimethyl-3-[β -Oxyäthyl]-R-Pentamethylen (β -Campholandiöl). Sm. 145° (*C. r. 138*, 281 *C. 1904* [1] 725).
- 57) Glykol (aus Dihydrophellandren). Fl. (*B. 36*, 1035 *C. 1903* [1] 1135).
- $C_{10}H_{20}O_3$ *5) δ -Oxy- $\beta\zeta$ -Dimethylheptan- γ -Carbonsäure. Sm. 81—82°; Sd. 240—244° u. Zers. Ag (*M. 25*, 1046 *C. 1904* [2] 1599).
- 21) Methylester d. β -Keto-oktan- α -Carbonsäure. Sd. 132,5—134°₁₀. Cu (*C. r. 136*, 755 *C. 1903* [1] 1019).
- 22) Heptylester d. 1- α -Oxypropionsäure. Sd. 115—116°₁₀ (*C. 1903* [2] 1419).
- $C_{10}H_{20}O_4$ 14) Oxypivalinat d. $\alpha\gamma$ -Dioxy- $\beta\zeta$ -Dimethylpropan. Sm. 51°; Sd. 260° (*M. 25*, 867 *C. 1904* [2] 1106).
- $C_{10}H_{20}O_6$ *1) Trimethyläther d. α -Methylglykosid. Sd. 167—170°₁₇ (*Soc. 83*, 1028 *C. 1903* [2] 346, 659; *Soc. 83*, 1037 *C. 1903* [2] 346, 659).

- $C_{10}H_{20}O_6$ 2) α -Tetramethyläther d. Glykose. Sm. 88—89°; Sd. 182—185°₂₀ (Soc. 83, 1031 C. 1903 [2] 346, 659; Soc. 85, 1066 C. 1904 [2] 891).
- 3) β -Tetramethyläther d. Glykose. Sm. 88—89° (Soc. 85, 1060 C. 1904 [2] 892).
- 4) Tetramethyläther d. Galaktose. Sd. 172°₁₃ (Soc. 85, 1075 C. 1904 [2] 892).
- $C_{10}H_{20}O_7$ C 47,6 — H 7,9 — O 44,5 — M. G. 252.
- 1) Glykontetramethyläthersäure. Ba (Soc. 83, 1034 C. 1903 [2] 346, 659).
- $C_{10}H_{20}N_2$ 16) Nitril d. α -Aethylamidoheptan- α -Carbonsäure. Sd. 122°₁₂ (B. 37, 4094 C. 1904 [2] 1725).
- 17) Nitril d. δ -Diäthylamido- β -Methylbutan- δ -Carbonsäure. Sd. 88,5 bis 89°₁₁ (B. 37, 4089 C. 1904 [2] 1724).
- $C_{10}H_{20}N_4$ *1) Dipiperidyltetrazon (G. 33 [2] 244 C. 1904 [1] 25).
- 2) 3,6-Diisobutyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 197° (J. pr. [2] 69, 483 C. 1904 [2] 537).
- $C_{10}H_{21}N$ *14) l-Menthylamin. HCl, d-Camphersulfonat, d-Bromcamphersulfonat (Soc. 85, 69 C. 1904 [1] 375, 808).
- 28) Diäthylamidohexahydrobenzol. Sd. 193° (C. r. 138, 1258 C. 1904 [2] 105).
- 29) Iso-l-Menthylamin. d-Camphersulfonat, d-Bromcamphersulfonat (Soc. 85, 74 C. 1904 [1] 375, 808).
- 30) neo-l-Menthylamin. d-Camphersulfonat, d-Bromcamphersulfonat (Soc. 85, 77 C. 1904 [1] 375, 808).
- 31) l-F-Menthylamin. Sd. 206—207°. HCl, Pikrat (C. 1904 [2] 1046).
- 32) δ -Amido- β -Dimethyl- β -Okten (Rhodinamin). Sd. 105°₁₅ (Bl. [3] 29, 1048 C. 1903 [2] 1439).
- 33) 4-(α -Amidoisopropyl)-1-Methylhexahydrobenzol. Sd. 199—200°₇₅₀ (C. 1904 [1] 1517).
- $C_{10}H_{22}O$ *1) α -Oxydekan (C. r. 137, 61 C. 1903 [2] 551).
- *5) γ -Oxymethyl- β - ζ -Dimethylheptan (Am. 30, 227 C. 1903 [2] 933).
- 22) α -Oxy- γ -Methylnonan. Sd. 114—116°₁₄ (C. r. 137, 328 C. 1903 [2] 710).
- 23) ϵ -Oxy- β -Methyl- ϵ -Aethylheptan. Sd. 83—86°₁₅ (C. r. 138, 153 C. 1904 [1] 577).
- $C_{10}H_{22}O_2$ 10) $\alpha\alpha$ -Dioxydekan. Sm. 71,5° (70°); Sd. 179°₁₁ (192°₂₀) (C. r. 137, 329 C. 1903 [2] 711; M. 24, 629 C. 1903 [2] 1237; M. 25, 344 C. 1904 [1] 1399).
- 11) $\gamma\delta$ -Dioxy- $\beta\gamma\delta\epsilon$ -Tetramethylhexan. Sm. 22° (C. 1903 [2] 23).
- 12) isom. $\gamma\delta$ -Dioxy- $\beta\gamma\delta\epsilon$ -Tetramethylhexan. Fl. (C. 1903 [2] 23).
- 13) Glykol (aus Isovaleriansäurealdehyd). Sm. 48°; Sd. 146—150°₁₈ (M. 24, 579 C. 1903 [2] 870).
- 14) α -Aethyläther d. $\alpha\beta$ -Dioxy- β -Propylpentan. Sd. 201° (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 303 C. 1904 [1] 1133).
- 15) Diäthyläther d. $\epsilon\epsilon$ -Dioxy- β -Methylpentan. Sd. 180—182° (B. 37, 188 C. 1904 [1] 638).
- $C_{10}H_{22}N_2$ 7) 1,5-Diamido-3-Isopropyl-1-Methylhexahydrobenzol. Sd. 115—117°₁₈. Oxalat (A. 328, 116 C. 1903 [2] 245).
- $C_{10}H_{23}N$ *4) Diisoamylamin. Salze siehe (C. r. 135, 902 C. 1903 [1] 131).
- 9) Base (aus tert. Amylchlorid u. Diäthylformamid). Sd. 165—166° (C. r. 136, 1109 C. 1904 [1] 1644).
- $C_{10}H_4O_2Cl_4$ 5) 1,1,4,4-Tetrachlor-2,3-Diketo-1,2,3,4-Tetrahydronaphtalin + $\frac{1}{2}H_2O$. Sm. 115° (A. 334, 351 C. 1904 [2] 1054).
- $C_{10}H_4O_4Br_4$ 1) 1,4,6,7-Tetrabrom-2,3-Dioxynaphtalin. Sm. 242° (A. 334, 363 C. 1904 [2] 1055).
- $C_{10}H_5O_4N$ *1) 3-Nitro-1,2-Naphtochinon. Sm. 158° (C. 1903 [2] 1109).
- $C_{10}H_5O_7N_3$ *1) 2,4,5-Trinitro-1-Oxynaphtalin. Sm. 190°. K + H_2O (A. 335, 147 C. 1904 [2] 1135).
- *4) 2,4,8-Trinitro-1-Oxynaphtalin. Sm. 175° (A. 335, 156 C. 1904 [2] 1136).
- $C_{10}H_5O_7Br$ 1) 4-Brombenzol-1,3-Dicarbonsäure-2-Ketocarbonsäure. Sm. 192° (A. 327, 90 C. 1903 [1] 1228).

- $C_{10}H_6ON_2$ 7) Anhydrid d. 1-Oxy-2-Diazonaphtalin. Sm. 76—77° (C. 1903 [1] 401).
 $C_{10}H_6OBr_2$ *1) 2,4-Dibrom-1-Oxynaphtalin. Sm. 107—108° (A. 333, 367 C. 1904 [2] 1117).
 $C_{10}H_6O_2N_4$ 3) 2,3-Dioxy-1,4,5,10-Naphttetrazin (Dioxypyrazinophenazin). Sm. oberh. 300°. NH_3 (B. 36, 4041 C. 1904 [1] 183).
 $C_{10}H_6O_2Cl_2$ 7) 1,4-Dichlor-2,3-Dioxynaphtalin. Sm. 181° (A. 334, 353 C. 1904 [2] 1054).
 $C_{10}H_6O_2Br_2$ 6) 1,4-Dibrom-2,3-Dioxynaphtalin. Sm. 178° (A. 334, 361 C. 1904 [2] 1055).
 7) 6,7-Dibrom-2,3-Dioxynaphtalin. Sm. 217° (A. 334, 364 C. 1904 [2] 1055).
 8) 1-Dibromacetylbenzofuran. Sm. 90° (B. 36, 2865 C. 1903 [2] 832).
 $C_{10}H_6O_4N_2$ *2) 1,5-Dinitronaphtalin. Sm. 214° (C. 1904 [1] 461).
 *3) 1,6-Dinitronaphtalin. Sm. 161° (A. 335, 142 C. 1904 [2] 1135).
 *4) 1,8-Dinitronaphtalin. Sm. 170° (C. 1904 [1] 461).
 *14) 5-Nitro-4-Nitroso-1-Oxynaphtalin. Zers. bei 250—260° (A. 335, 145 C. 1904 [2] 1135).
 *15) 8-Nitro-4-Nitroso-1-Oxynaphtalin. Zers. bei 235—240°. $Ba + 3H_2O$ (A. 335, 153 C. 1904 [2] 1136).
 $C_{10}H_6O_5N_2$ *6) 4,8-Dinitro-1-Oxynaphtalin. Sm. 235° u. Zers. (A. 335, 154 C. 1904 [2] 1136).
 $C_{10}H_6O_5S$ *1) 1,2-Naphtochinon-4-Sulfonsäure (H. 41, 379 C. 1904 [2] 112).
 $C_{10}H_6O_6S$ 5) 2-Oxy-1,4-Naphtochinon-6-Sulfonsäure (D.R.P. 100703). — *III, 281.
 $C_{10}H_7O_7N_4$ *2) 6,8,9-Trinitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 214 bis 215° (J. pr. [2] 68, 103 C. 1903 [2] 445).
 $C_{10}H_7OCl$ *2) 4-Chlor-1-Oxynaphtalin. Sm. 116—117°. Pikrat (Bl. [3] 31, 35 C. 1904 [1] 519).
 $C_{10}H_7OBr$ *1) 4-Brom-1-Oxynaphtalin. Sm. 121°. Pikrat (Bl. [3] 31, 35 C. 1904 [1] 519).
 $C_{10}H_7O_2N$ *2) 2-Nitronaphtalin. Sm. 79°; Sd. 160—170°₁₆ (B. 36, 4157 C. 1904 [1] 284).
 *3) 2-Nitroso-1-Oxynaphtalin (2-Oximido-1-Keto-1,2-Dihydronaphtalin). Sm. 162—164° u. Zers. (B. 36, 4167 C. 1904 [1] 287).
 *13) Chinolin-4-Carbonsäure (M. 24, 201 C. 1903 [2] 48).
 25) 1,3-Diketo-2-Amidomethylen-2,3-Dihydroinden. Sm. 210° u. Zers. (G. 32 [2] 331 C. 1903 [1] 586; G. 33 [1] 419 C. 1903 [2] 950, 1181).
 $C_{10}H_7O_2N_5$ C 52,4 — H 3,1 — O 13,9 — N 30,6 — M. G. 229.
 $C_{10}H_7O_2Cl$ 3) Ureidamidazolin. $Na + \frac{1}{2}H_2O$ (A. 333, 45 C. 1904 [2] 770).
 3) 6-Chlormethyl-1,2-Benzpyron. Sm. 140—141° (B. 37, 195 C. 1904 [1] 660).
 $C_{10}H_7O_3N$ *1) 2-Nitro-1-Oxynaphtalin. Sm. 128° (C. 1903 [2] 1109).
 *3) 1-Nitro-2-Oxynaphtalin. Sm. 103° (C. 1903 [2] 1109).
 *29) Kynurensäure (B. 37, 1807 C. 1904 [1] 1611).
 38) 1,3-Diketo-2-Hydroxylamidomethylen-2,3-Dihydroinden. Sm. 250°. K, Ag (G. 33 [2] 154 C. 1903 [2] 1272).
 39) 6-Formylamido-1,2-Benzpyron. Sm. 175—176° (Soc. 85, 1233 C. 1904 [2] 1124).
 40) 6-Oximidomethyl-1,2-Benzpyron. Sm. 223° (B. 37, 196 C. 1904 [1] 661).
 41) 1,3,4-Triketo-2-Methyl-1,2,3,4-Tetrahydroisochinolin. Sm. 186 bis 187° (B. 37, 1944 C. 1904 [2] 123).
 42) α -Cyan- β -[3-Oxyphenyl]akrylsäure (Bl. [3] 25, 594). — *II, 1131.
 43) α -Cyan- β -[4-Oxyphenyl]akrylsäure (Bl. [3] 25, 594). — *II, 1131.
 44) Nitril d. 3,4,5-Trioxo-1-Aethenylbenzol-4,5-Methylenäther-2-Carbonsäure (Norcotarnonitril). Sm. 202°. Na (B. 36, 1532 C. 1903 [2] 52).
 $C_{10}H_7O_3N_3$ 5) Amid d. α -Cyan- β -[2-Nitrophenyl]akrylsäure. Sm. 173—174° (C. 1904 [1] 878).
 $C_{10}H_7O_3Cl$ 4) Monochlorid d. Fumarsäuremonophenylester. Sm. 39°; Sd. 187 bis 188°₄₀ (B. 35, 4088 C. 1903 [1] 75).
 $C_{10}H_7O_4N$ 12) Anhydrid d. 3-Acetylamidobenzol-1,2-Dicarbonsäure. Sm. 181° (B. 36, 2537 Anm. C. 1903 [2] 720).

- $C_{10}H_7O_4N_3$ *10) 4,5-Dinitro-1-Amidonaphtalin. Sm. 236° (D.R.P. 145191 C. 1903 [2] 1097).
- 15) 1-Oxy-4-Benzoyl-1,2,3-Triazol-5-Carbonsäure. Sm. 126—127° u. Zers. (A. 325, 167 C. 1903 [1] 645).
- $C_{10}H_7O_4Br$ 6) Aldehyd d. 6-Brom-3,4,5-Trioxyl-1-Aethenylbenzol-4,5-Methylenäther-2-Carbonsäure (Bromnorcotarnon). Sm. 138°. Na (B. 36, 1536 C. 1903 [2] 53).
- $C_{10}H_7O_5N$ 8) Difuranoylhydroxamsäure. Sm. 180° (B. 37, 2952 C. 1904 [2] 993).
- $C_{10}H_7O_5N_3$ 2) Ureidoxyoxazon. Ba + 2H₂O (A. 333, 50 C. 1904 [2] 771).
- 3) 4-[4-Nitrobenzoyl]methyl-1,2,3,6-Dioxdiazin. Sm. 197—198° (A. 330, 240 C. 1904 [1] 945).
- 4) 8,9-Dinitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 208° (J. pr. [2] 68, 102 C. 1903 [2] 445).
- $C_{10}H_7ClS$ 1) 4-Chlor-1-Merkaptonaphtalin. Sm. 43—44° (C. r. 138, 982 C. 1904 [1] 1413).
- $C_{10}H_7BrS$ 1) 4-Brom-1-Merkaptonaphtalin. Sm. 55—56° (C. r. 138, 982 C. 1904 [1] 1413).
- $C_{10}H_7BrHg$ 1) 1-Naphtylmagnesiumbromid (B. 37, 626 C. 1904 [1] 810).
- $C_{10}H_7OBr_2$ 1) Methyläther d. α -[2-Dibrom-2-Oxyphenyl]propin. Sd. 165—166°₁₀ (B. 36, 1192 C. 1903 [1] 1179).
- 2) Verbindung (aus Dibromanetholdibromid). Sd. 200—205°₁₈ (B. 37, 1558 C. 1904 [1] 1438).
- $C_{10}H_7OBr_4$ 1) Methyläther d. α -[2-Dibrom-2-Oxyphenyl]propen. Fl. (B. 36, 1192 C. 1903 [1] 1179).
- $C_{10}H_7O_2N_2$ *22) 2,4-Diketo-6-Phenyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 269 bis 270° (Ann. 29, 490 C. 1903 [1] 1310).
- *27) 8-Nitro-6-Methylchinolin. Sm. 122° (C. 1904 [2] 543).
- *53) 5-Phenylpyrazol-3-Carbonsäure. Hydrazinsalz (B. 37, 2202 C. 1904 [2] 323).
- 54) 6-Nitro-2-Methylchinolin. Sm. 173—174°. (2HCl, PtCl₄) (M. 24, 99 C. 1903 [1] 922).
- 55) 4-Benzoyl-5-Methyl-1,2,3-Oxdiazol. Sm. 65—66° (A. 325, 136 C. 1903 [1] 643).
- 56) 1-Phenylpyrazol-1²-Carbonsäure. Sm. 138,5—139°. Ba (G. 19, 123). — IV, 498.
- 57) 1-Phenylpyrazol-1⁴-Carbonsäure. Sm. 264—265°. Na, Ba (G. 19, 120). — II, 498.
- 58) Nitril d. α -Oximido-4-Methylbenzoylessigsäure. Sm. 130,5—131° (B. 37, 3469 C. 1904 [2] 1305).
- $C_{10}H_7O_2N_1$ 3) 5-Oximido-6-Imido-4-Keto-2-Phenyl-3,4,5,6-Tetrahydro-1,3-Diazin (B. 37, 2269 C. 1904 [2] 198).
- 4) Nitril d. α -Oximido- β -Nitrosimido- β -[4-Methylphenyl]propionsäure. NH₄ (B. 37, 3469 C. 1904 [2] 1305).
- $C_{10}H_7O_2Br_4$ 5) Methyläther d. 2,5,6-Tribrom-3-Oxy-4-Keto-1-[β -Brompropylen]-1,4-Dihydrobenzol (A. 329, 32 C. 1903 [2] 1436).
- $C_{10}H_7O_2S$ *3) Naphtalin-2-Sulfinsäure. Sm. 103°. Ag (G. 33 [2] 306 C. 1904 [1] 288).
- $C_{10}H_7O_3N_2$ *16) Methyläther d. 5-Nitro-8-Oxychinolin. Sm. 151° (C. 1903 [1] 36).
- *22) 5-Keto-1-Phenyl-4,5-Dihydropyrazol-3-Carbonsäure. Sm. 263° u. Zers. (A. 331, 103 C. 1904 [1] 931).
- *37) 8-Nitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 133—134° (J. pr. [2] 68, 100 C. 1903 [2] 444).
- 40) 6-Methylnitrosamido-1,2-Benzpyron. Sm. 168—169° (Soc. 85, 1238 C. 1904 [2] 1124).
- 41) 4-Nitro-5-Methyl-3-Phenylisoxazol. Sm. 48° (A. 329, 260 C. 1904 [1] 32).
- 42) 4-Benzoylmethyl-1,2,3,6-Dioxdiazin. Sm. 158—159° (A. 330, 241 C. 1904 [1] 945).
- 43) 4-Oximido-1,3-Diketo-2-Methyl-1,2,3,4-Tetrahydroisochinolin. Sm. 207—208° (B. 37, 1945 C. 1904 [2] 123).
- 44) Amid d. α -Cyan- β -[3,4-Dioxyphenyl]akrylsäure. Sm. 232° u. Zers. (C. 1904 [2] 903).
- $C_{10}H_7O_3Br_2$ 3) α -[2-Dibrom-2-Oxyphenyl]propan- γ -Carbonsäure. Sm. 138° u. Zers. (B. 36, 2528 C. 1903 [2] 496).

- $C_{10}H_8O_4N_2$ *9) 4-Nitrophenylimid d. Bernsteinsäure. Sm. 210° (A. 327, 49 Anm. C. 1903 [1] 1336).
- 18) δ -Nitro- δ -Nitroso- γ -Keto- α -Phenyl- α -Buten. Sm. 123—124° (C. 1903 [2] 1432; A. 330, 256 C. 1904 [1] 946).
- 19) δ -Oximido- γ -Keto- α -[3-Nitrophenyl]- α -Buten. Sm. 164° u. Zers. (C. 1904 [1] 28; A. 330, 252 C. 1904 [1] 946).
- 20) Methylester d. 5,8-Diketo-5,6,7,8-Tetrahydro-1,6[oder 1,7]-Benzodiazin-7[oder 6]-Carbonsäure. Sm. 203—205° u. Zers. (B. 37, 2133 C. 1904 [2] 232).
- 21) 3-Nitrophenylimid d. Bernsteinsäure. Sm. 175—176° (A. 327, 47 C. 1903 [1] 1336).
- $C_{10}H_8O_4N_4$ 5) 5-Methyl-3-[3,5-Dinitrophenyl]pyrazol. Sm. 220° (J. pr. [2] 69, 466 C. 1904 [2] 596).
- $C_{10}H_8O_4Br_4$ 2) Anemonintetrabromid. Zers. bei 180° (Ar. 230, 205). — *III, 355.
- $C_{10}H_8O_4S$ *3) 1-Oxynaphtalin-4-Sulfonsäure (J. pr. [2] 69, 85 C. 1904 [1] 813).
- *8) 2-Oxynaphtalin-6-Sulfonsäure. Pararosanilinsalz (C. 1904 [1] 1013).
- *10) 2-Oxynaphtalin-8-Sulfonsäure. (Na, HgCl) (D.R.P. 143726 C. 1903 [2] 474).
- $C_{10}H_8O_4S_2$ 1) Naphtalin- β -Disulfinsäure (J. pr. [2] 68, 339 C. 1903 [2] 1172).
- $C_{10}H_8O_5N_2$ 7) γ -Keto- α -[2,4-Dinitrophenyl]- α -Buten. Sm. 73—74° (M. 23, 1005 C. 1903 [1] 292).
- 8) Methylen-3-Nitrohippursäure. Sm. 165° (D.R.P. 153860 C. 1904 [2] 678).
- $C_{10}H_8O_6S$ *9) 1,6-Dioxynaphtalin-3-Sulfonsäure (J. pr. [2] 69, 83 C. 1904 [1] 812).
- 15) 1,7-Dioxynaphtalin-3-Sulfonsäure (J. pr. [2] 69, 89 C. 1904 [1] 813).
- $C_{10}H_8O_6N_2$ 12) $\alpha\gamma$ -Diketo- α -[3,5-Dinitrophenyl]butan. Sm. 121° (J. pr. [2] 69, 465 C. 1904 [2] 596).
- 13) Phenylhydrazonmethan- $\alpha, \alpha, 4$ -Tricarbonsäure. Sm. 275° u. Zers. (B. 37, 4175 C. 1904 [2] 1704).
- 14) Dilaktam d. $\gamma\delta$ -Diimidohexan- $\beta\beta'\epsilon\epsilon$ -Tetracarbonsäure (A. 332, 129 C. 1904 [2] 189).
- $C_{10}H_8O_7N_2$ 6) 6-Nitro-4-Acetylamidobenzol-1,3-Dicarbonsäure. Sm. 264° u. Zers. (G. 33 [2] 286 C. 1904 [1] 265).
- $C_{10}H_8O_7S_2$ *6) 2-Oxynaphtalin-3,6-Disulfonsäure (D.R.P. 143448 C. 1903 [2] 403).
- *13) 1-Oxynaphtalin-4,8-Disulfonsäure (J. pr. [2] 69, 81 C. 1904 [1] 812).
- $C_{10}H_8O_8S_2$ *6) 1,8-Dioxynaphtalin-3,6-Disulfonsäure (D.R.P. 147852 C. 1904 [1] 133).
- $C_{10}H_8NCl$ *3) 8-Chlor-1-Amidonaphtalin. Sm. 98° (D.R.P. 147852 C. 1904 [1] 132).
- 14) 5[oder 7]-Chlor-2-Methylechinolin. Sm. 78° (C. 1904 [2] 543).
- 15) 6-Chlor-2-Methylechinolin. Sm. 91°. HCl (C. 1904 [2] 543).
- 16) 8-Chlor-2-Methylechinolin. Sm. 64° (C. 1904 [2] 543).
- $C_{10}H_8NBBr$ 13) 6-Brom-2-Methylechinolin. Sm. 96—97° (C. 1904 [2] 543).
- $C_{10}H_8N_2S_2$ *3) 1,3-Di[Rhodanmethyl]benzol. Sm. 62° (B. 36, 1681 C. 1903 [2] 30).
- $C_{10}H_8ON$ *12) 3-Methyl-5-Phenylisoxazol. Sm. 68°; Sd. 151—152°₁₉ (C. r. 137, 796 C. 1904 [1] 43).
- *32) Methyläther d. 8-Oxychinolin. Sm. 46,5°; Sd. 282°₇₄₃ (C. 1903 [1] 36).
- *37) 2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 72°; Sd. 320° (B. 36, 1170 C. 1903 [1] 1363; B. 36, 1209 C. 1903 [1] 1418).
- *41) Anhydro-6-Oxychinolinmethyloxydhydrat (B. 36, 1170 C. 1903 [1] 1363).
- *51) 5-Amido-1-Oxynaphtalin (J. pr. [2] 69, 84 C. 1904 [1] 812).
- *54) 7-Amido-2-Oxynaphtalin (J. pr. [2] 69, 89 C. 1904 [1] 813).
- *55) 1-Naphtylhydroxylamin + H₂O (oder C₁₀H₁₁O₂N). Sm. 78—79° (D.R.P. 84138; B. 37, 3055 C. 1904 [2] 992).
- 57) 1-Keto-3-Aethylpseudoisindol. Sm. 210° (C. r. 138, 988 C. 1904 [1] 1446).
- $C_{10}H_9ON_3$ 13) 2,8-Diamido-4-Imido-1-Keto-1,4-Dihydronaphtalin. HCl (B. 34, 1226). — *III, 277.
- 14) γ -Semicarbazon- α -Phenylpropin. Sm. 137—138° (C. r. 138, 1341 C. 1904 [2] 187).
- 15) 4-Nitroso-3-Methyl-5-Phenylpyrazol. Sm. 153° (A. 325, 194 C. 1903 [1] 647).
- 16) 4-Amido-6-Oxy-2-Phenyl-1,3-Diazin. Sm. 252° (B. 37, 2268 C. 1904 [2] 198).

- $C_{10}H_9OCl_5$ 2) Butyläther d. Pentachloroxybenzol. Sm. 15,5—16,5°; Sd. 343° (B. 37, 4020 C. 1904 [2] 1717).
- $C_{10}H_9OBr$ 1) Methyläther d. α -[β -Brom-2-Oxyphenyl]propin. Sd. 148—149°₁₀ (B. 36, 1190 C. 1903 [1] 1179).
2) α -Brom- γ -Keto- α -Phenyl- α -Buten. Sd. 169—170°₂₀ (Soc. 85, 464 C. 1904 [1] 1438).
- $C_{10}H_9OBr_3$ 3) Methyläther d. β -Brom- α -[β -Dibrom-2-Oxyphenyl]propen. Sd. 172 bis 173°₁₀ (B. 36, 1191 C. 1903 [1] 1179).
4) Methyläther d. $\alpha\beta$ -Dibrom- α -[β -Brom-2-Oxyphenyl]propen. Fl. (B. 36, 1190 C. 1903 [1] 1179).
5) Methyläther d. β -Brom- α -[3, 5-Dibrom-4-Oxyphenyl]propen. Sm. 58° (B. 37, 1553 C. 1904 [1] 1438).
- $C_{10}H_9OBr_5$ 3) Methyläther d. β -Dibrom-2-Oxy-1-[$\alpha\beta\beta$ -Tribrompropyl]benzol. Fl. (B. 36, 1191 C. 1903 [1] 1179).
4) Methyläther d. 3, 5-Dibrom-4-Oxy-1-[$\alpha\beta\beta$ -Tribrompropyl]benzol. Sm. 92° (B. 37, 1553 C. 1904 [1] 1438).
- $C_{10}H_9O_2N$ *28) Indol-3-Methylcarbonsäure. Sm. 165° (B. 37, 1805 C. 1904 [1] 1610).
*37) Phenylimid d. Bernsteinsäure. Sm. 150° (C. 1903 [2] 432; B. 37, 1598 C. 1904 [1] 1418).
*53) 5-Amido-1,4-Dioxynaphtalin. HCl (A. 335, 149 C. 1904 [2] 1136).
63) 2-Nitro-3-Methylinden. Sm. 107—108° (A. 336, 5 C. 1904 [2] 1465).
64) 6-Methylamido-1, 2-Benzpyron. Sm. 105—106° (Soc. 85, 1238 C. 1904 [2] 1124).
65) 6-Oxy-2-Keto-1-Methyl-1, 2-Dihydrochinolin + H_2O . Sm. 218—220° (228°) wasserfrei. HJ (B. 36, 458 C. 1903 [1] 590; B. 36, 1175 C. 1903 [1] 1363).
66) 8-Oxy-2-Keto-1-Methyl-1, 2-Dihydrochinolin. Sm. 286° (B. 36, 1176 C. 1903 [1] 1364).
67) Aldehyd d. γ -Oximido- α -Phenylpropen- γ -Carbonsäure. Sm. 103 bis 104° (C. 1903 [2] 1432; A. 330, 250 C. 1904 [1] 946).
68) Imid d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 90° (M. 24, 421 C. 1903 [2] 622).
- $C_{10}H_9O_2N_3$ *3) 4-Oximido-5-Keto-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 156° (A. 328, 75 C. 1903 [2] 249).
*27) Nitril d. 2, 6-Diketo-4-Propyl-1, 2, 3, 6-Tetrahydropyridin-3, 5-Dicarbonsäure. NH_4 , Ag (A. 325, 218 C. 1903 [1] 439).
30) 1-Oxy-4-Benzoyl-5-Methyl-1, 2, 3-Triazol. Zers. bei 190° (A. 325, 166 C. 1903 [1] 645).
31) Amid d. 5-Keto-3-Phenyl-4,5-Dihydropyrazol-1-Carbonsäure. Sm. 184—185° (A. 331, 317 C. 1904 [2] 46).
- $C_{10}H_9O_3Br$ 9) Methylenäther d. β -Brom-3,4-Dioxy-1-Propenylbenzol. Sm. 208° (C. 1904 [2] 1568).
10) Methylester d. β -[4-Bromphenyl]akrylsäure. Sm. 79—80° (B. 37, 223 C. 1904 [1] 588).
- $C_{10}H_9O_3Br_3$ *1) Methylenäther d. β -Brom-3,4-Dioxy-1-[$\alpha\beta$ -Dibrompropyl]benzol. Sm. 110—111° (C. 1903 [1] 969).
*4) Methyläther d. α -Bromäthyl-3, 5-Dibrom-4-Oxyphenylketon. Sm. 101° (B. 37, 1549 C. 1904 [1] 1437).
13) 3-Methyläther d. 2, 5, 6-Tribrom-3, 4-Dioxy-1-Propenylbenzol. Sm. 118° (A. 329, 33 C. 1903 [2] 1436).
14) Methyläther d. 2, 5-Dibrom-3-Oxy-4-Keto-1-[β -Brompropyliden]-1,4-Dihydrobenzol. Zers. bei 175° (A. 329, 23 C. 1903 [2] 1436).
15) Methyläther d. polym. 2,5-Dibrom-3-Oxy-4-Keto-1-[β -Brompropyliden]-1,4-Dihydrobenzol (A. 329, 25 C. 1903 [2] 1436).
- $C_{10}H_9O_3Br_5$ 2) 3-Methyläther d. 2, 5, 6-Tribrom-3,4-Dioxy-1-[$\alpha\beta$ -Dibrompropyl]benzol. Sm. 130° (A. 329, 30 C. 1903 [2] 1436).
- $C_{10}H_9O_3N$ *5) β -Oximido- $\alpha\gamma$ -Diketo- α -Phenylbutan. Sm. 124—126° (A. 325, 136 C. 1903 [1] 643).
45) Methyläther d. 5-Keto-3-[4-Oxyphenyl]-4, 5-Dihydroisoxazol. Sm. 143° u. Zers. (C. 1897 [2] 616). — *II, 1040.
46) 6[oder 7]-Aethyläther d. 6[oder 7]-Oxy-1,4-Diketo-3-Methyl-1,2,3,4-Tetrahydroisochinolin. Zers. bei 240° (B. 37, 1979 C. 1904 [2] 237).
47) Methylenhippursäure (D.R.P. 148669 C. 1904 [1] 411).

- $C_{10}H_9O_3N$ 48) Methylester d. β -[4-Nitrosophenyl]akrylsäure. Sm. 111—112° (*Am.* 32, 395 *C.* 1904 [2] 1498).
- 49) Acetat d. 5-Oxy-1-Methylbenzoxazol. Sm. 55° (*B.* 35, 4205 *C.* 1903 [1] 146).
- $C_{10}H_9O_3N_3$ *25) 4-[α -Oximido- α -Phenyläthyl]-1,2,3,6-Dioxdiazin. Sm. 215°. Na (*A.* 330, 237 *C.* 1904 [1] 945).
- 28) 6-Nitro-2-Acetyl-5-Methylindazol. Sm. 203—204° (*B.* 37, 2593 *C.* 1904 [2] 660).
- 29) 5-Nitro-2-Acetyl-6-Methylindazol. Sm. 182—183° (*B.* 37, 2589 *C.* 1904 [2] 660).
- 30) $\alpha\gamma$ -Laktam d. α -Cyan- $\beta\gamma$ -Diimido- δ -Acetyl- ϵ -Ketohehexan- α -Carbonsäure. Sm. 175° (*A.* 332, 156 *C.* 1904 [2] 192).
- 31) Methylester d. 5-Oxy-1-Phenyl-1,2,3-Triazol-4-Carbonsäure + H_2O . Sm. 72—73°. NH_4 , Na, Cu + $2H_2O$, Anilinsalz, Phenylhydrazinsalz, o-Tolidinsalz, Benzidinsalz, Dianisidinsalz (*B.* 35, 4049 *C.* 1903 [1] 169; *A.* 335, 29 *C.* 1904 [2] 1229).
- 32) Methylester d. 5-Keto-1-Phenyl-4,5-Dihydro-1,2,3-Triazol-4-Carbonsäure. Sm. 82—83°. o-Tolidinsalz (*B.* 35, 4049 *C.* 1903 [1] 169; *A.* 335, 63 *C.* 1904 [2] 1230).
- 33) Amid d. α -Cyan- β -[3-Nitrophenyl]propionsäure. Sm. 147—148° (*C.* 1904 [1] 878).
- 34) Amid d. α -Cyan- β -[4-Nitrophenyl]propionsäure. Sm. 168,5° (*C.* 1904 [1] 878).
- $C_{10}H_9O_3N_5$ 2) 1-Ureido-5-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 208° u. Zers. (*B.* 36, 3615 *C.* 1903 [2] 1380).
- $C_{10}H_9O_4N$ *2) Methylenäther d. β -Nitro- α -[3,4-Dioxyphenyl]propen. Sm. 98° (*A.* 332, 331 *C.* 1904 [2] 652).
- *23) Methylester d. β -[4-Nitrophenyl]akrylsäure. Sm. 160° (*Am.* 32, 395 *C.* 1904 [2] 1498).
- *26) Phenylimid d. d-Weinsäure. Sm. 225° u. Zers. (*Soc.* 83, 1365 *C.* 1904 [1] 85).
- *35) Methylester d. 3-Keto-3,4-Dihydro-1,4-Benzoxazin-6-Carbonsäure. Sm. 193° (*A.* 325, 338 *C.* 1903 [1] 771).
- 39) 4,5-Methylenäther d. 4,5,6-Trioxo-2-Aethenyl-1-Oximidomethylbenzol (Oxim d. Noreotamon). Sm. 202—203° (*B.* 36, 1531 *C.* 1903 [2] 52).
- 40) trans-1-[p-Nitrophenyl]-R-Trimethylen-2-Carbonsäure. Sm. 154° (*B.* 36, 3786 *C.* 1904 [1] 43).
- 41) 4-Amido-4-Oxy-3,4-Dihydrobenzpyran-2-Carbonsäure (*Soc.* 79, 471). — *III, 553.
- 42) Lakton d. p-Nitro-1-[α -Oxyisopropyl]benzol-2-Carbonsäure (Nitrodimethylphtalid). Sm. 131—132° (*B.* 37, 736 *C.* 1904 [1] 1078).
- 43) Methylester d. 1-Keto-2-Methyl-1,2-Dihydrobenzoxazol-4-Carbonsäure. Sm. 168° (*A.* 325, 328 *C.* 1903 [1] 770).
- $C_{10}H_9O_4N_3$ 6) $\gamma\delta$ -Dioximido- α -[3-Nitrophenyl]- α -Buten. Sm. 220° (*C.* 1904 [1] 28; *A.* 330, 253 *C.* 1904 [1] 946).
- $C_{10}H_9O_4Br$ 11) β -Brom- α -Phenyläthan- $\beta\beta$ -Dicarbonsäure. Sm. 137° (*B.* 37, 3063 *C.* 1904 [2] 1207).
- $C_{10}H_9O_5N$ *14) 4-Acetylamidobenzol-1,3-Dicarbonsäure. Sm. 289,5° (*B.* 36, 1803 *C.* 1903 [2] 283).
- 26) Lakton d. β -Nitro- α -Oxy- α -Methoxyl- α -Phenyläthan-2-Carbonsäure. Sm. 110—111°. K (*B.* 36, 576 *C.* 1903 [1] 711).
- $C_{10}H_9O_6N_3$ 9) Nitrat d. 4-[β -Oxy- β -Phenyläthyl]-1,2,3,6-Dioxdiazin. Sm. 101 bis 102° (*C.* 1903 [2] 1432; *A.* 330, 249 *C.* 1904 [1] 946).
- $C_{10}H_9O_6N$ 28) α -[3-Nitrophenyl]äthan- $\beta\beta$ -Dicarbonsäure. Ba (*C.* 1904 [1] 878).
- 29) Aldehyd d. 5-Nitro-3-Acetoxy-4-Oxybenzol-4-Methyläther-1-Carbonsäure. Sm. 86° (*B.* 35, 4397 *C.* 1903 [1] 341).
- $C_{10}H_9O_6N_3$ 4) 2-Nitro-4-Acetylamidophenyloxaminsäure. Sm. 228° u. Zers. Ba (*B.* 36, 414 *C.* 1903 [1] 630).
- 5) 3-Amido-4-Acetylamidophenyloxaminsäure. Sm. 209° (*B.* 36, 415 *C.* 1903 [1] 631).
- 6) Aethylester d. 4-Cyan-5-Nitro-3-Hydroxylamido-2-Oxybenzol-1-Carbonsäure. Sm. 186°. NH_4 (*B.* 37, 1851 *C.* 1904 [1] 1493).

- $C_{10}H_9O_6N_3$ 7) 2-Nitrophenylamid d. N-Acetoximidooxyessigsäure. Sm. 160° (*See* 81, 1568 *C.* 1903 [1] 157).
- 8) 3-Nitrophenylamid d. N-Acetoximidooxyessigsäure. Sm. 184° u. Zers. Na, K (*See* 81, 1569 *C.* 1903 [1] 157).
- 9) 4-Nitrophenylamid d. N-Acetoximidooxyessigsäure. Sm. 182° u. Zers. (*See* 81, 1570 *C.* 1903 [1] 158).
- $C_{10}H_9O_6N_5$ C 40,7 — H 3,0 — O 32,5 — N 23,7 — M. G. 295.
- 1) 1,3-Dimethylpurpursäure. NH_4 (*Am.* 31, 668 *C.* 1904 [2] 317).
- 2) 1',3'-Dimethylpurpursäure. NH_4 (*Am.* 31, 668 *C.* 1904 [2] 317).
- 3) 7-Aethylpurpursäure. $NH_4 + H_2O$ (*Am.* 31, 676 *C.* 1904 [2] 318).
- $C_{10}H_9O_7N$ *4) Nitroopiansäure. Sm. 168,5—169,5° (*B.* 36, 1541 *C.* 1903 [2] 112; *M.* 24, 796 *C.* 1904 [1] 163).
- $C_{10}H_9NCl_2$ 5) Methylenchlorid d. Chinolin. $2 + PtCl_4 + H_2O$ (*B.* 16, 2004; *A.* 326, 320 *C.* 1903 [1] 1088).
- $C_{10}H_9N_2Cl$ 9) 3-Chlor-5-Methyl-1-Phenylpyrazol. Sd. 295° (*B.* 36, 718 *C.* 1903 [1] 776).
- $C_{10}H_9N_2J$ *1) 2-Jod-1-Methyl-2-[3-Pyridyl]pyrrol (Jodnikotyrin). Sm. 110° (*C. r.* 137, 861 *C.* 1904 [1] 104).
- $C_{10}H_{10}ON_2$ *9) 3-Keto-5-Methyl-1-Phenyl-2,3-Dihydropyrazol. Sm. 167° (*B.* 36, 718 *C.* 1903 [1] 776).
- *57) 4,8-Diamido-1-Oxynaphtalin. 2HCl (*A.* 335, 155 *C.* 1904 [2] 1136).
- *61) Amid d. α -Cyan- β -Phenylpropionsäure. Sm. 133—133,5° (*A.* 325, 222 *C.* 1903 [1] 439).
- *63) 4,5-Diamido-1-Oxynaphtalin. 2HCl (*A.* 335, 152 *C.* 1904 [2] 1136).
- 70) 6-Amido-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 165° (*B.* 36, 1173 *C.* 1903 [1] 1363).
- 71) Nitril d. d- α -Benzoylamidopropionsäure. Sm. 115—120° (*Bl.* [3] 29, 1196 *C.* 1904 [1] 361).
- 72) Nitril d. l- α -Benzoylamidopropionsäure. Sm. 123,5° (*Bl.* [3] 29, 1196 *C.* 1904 [1] 361).
- 73) Nitril d. i- α -Benzoylamidopropionsäure. Sm. 108° (*Bl.* [3] 29, 1193 *C.* 1904 [1] 361).
- 74) Nitril d. r- α -Benzoylamidopropionsäure. Sm. 161—162° (*Bl.* [3] 29, 1196 *C.* 1904 [1] 361).
- 75) Nitril d. Phenylacetylamidoessigsäure. Sm. 90,5° (*B.* 36, 1648 *C.* 1903 [2] 32).
- 76) Nitril d. 4-Methylbenzoylamidoessigsäure. Sm. 153° (*B.* 36, 1648 *C.* 1903 [2] 32).
- 77) Nitril d. 2-Propionylamidobenzol-1-Carbonsäure. Sm. 119° (*C.* 1903 [1] 175).
- 78) Nitril d. 3-Propionylamidobenzol-1-Carbonsäure. Sm. 83,5—84° (*C.* 1904 [2] 101).
- 79) Nitril d. 4-Propionylamidobenzol-1-Carbonsäure. Sm. 169° (*C.* 1903 [2] 113).
- $C_{10}H_{10}ON_4$ 15) 4,5-Diamido-6-Oxy-2-Phenyl-1,3-Diazin. HCl (*B.* 37, 2269 *C.* 1904 [2] 198).
- 16) Hydrazid d. 5-Phenylpyrazol-3-Carbonsäure. Sm. 205° (*B.* 37, 2203 *C.* 1904 [2] 323).
- $C_{10}H_{10}OBr_2$ 4) Methyläther d. β -Brom- α -[β -Brom-2-Oxyphenyl]propen. Sd. 160 bis 162° (*B.* 36, 1189 *C.* 1903 [1] 1179).
- $C_{10}H_{10}OBr_4$ 3) Methyläther d. β -Brom-2-Oxy-1-[$\alpha\beta$ -Tribrompropyl]benzol. Sm. 105 bis 106° (*B.* 36, 1190 *C.* 1903 [1] 1179).
- 4) Methyläther d. β -Dibrom-2-Oxy-1-[$\alpha\beta$ -Dibrompropyl]benzol (*B.* 36, 1191 *C.* 1903 [1] 1179).
- 5) Methyläther d. 3,5-Dibrom-4-Oxy-1-[$\alpha\beta$ -Dibrompropyl]benzol. Sm. 101,5° (*B.* 37, 1550 *C.* 1904 [1] 1438).
- $C_{10}H_{10}O_2N_2$ *10) 2,4-Diketo-3-Phenyl-1-Methyltetrahydroimidazol. Sm. 199,5° (*Bl.* [3] 29, 1200 *C.* 1904 [1] 354).
- *32) Anhydrid d. α -Diisonitrosoanethol. Sm. 63° (97°) (*A.* 329, 267 *C.* 1904 [1] 32).
- *45) 1,2-Phenylenamid d. Bernsteinsäure. Sm. 236° (*A.* 327, 21, 29 *C.* 1903 [1] 1336).
- *52) 2,5-Diketo-4-Methyl-1-Phenyltetraimidazol. Sm. 172° (*Bl.* [3] 29, 1194 *C.* 1904 [1] 361).

- $C_{10}H_{10}O_2N_2$ 60) γ -Dioximido- α -Phenyl- α -Buten. Sm. 201—202° u. Zers. (C. 1903 [2] 1432; A. 330, 248 C. 1904 [1] 946).
- 61) Peroxyd d. 4-Oxy-1-[$\alpha\beta$ -Dioximidopropyl]benzol-4-Methyläther. Sm. 97° (B. 36, 3022 C. 1903 [2] 1002).
- 62) Äthyläther d. 5-Oxy-3-Phenyl-1,2,4-Oxdiazol. Sm. 36° (Am. 32, 371 C. 1904 [2] 1507).
- 63) Äthyläther d. 3-Oxy-5-Phenyl-1,2,4-Oxdiazol. Sm. 47—48° (Am. 32, 370 C. 1904 [2] 1507).
- 64) Äthyläther d. 5-Oxy-2-Phenyl-1,3,4-Oxdiazol. + $AgNO_3$ (P. Gutmann, Dissert., Heidelberg 1903).
- 65) 3-Nitro-1-Äthylindol. Sm. 102° (G. 34 [2] 61 C. 1904 [2] 710).
- 66) Benzimidazol-2-[Äthyl- β -Carbonsäure]. Sm. 226° (A. 327, 23 C. 1903 [1] 1336).
- 67) Methylester d. β -Phenyl- α -Diazopropionsäure. Sd. 85—87°₁₂ (B. 37, 1269 C. 1904 [1] 1334).
- 68) Äthylester d. Phenyl diazoessigsäure. Fl. (B. 37, 1266 C. 1904 [1] 1333).
- 69) Äthylester d. 3-Cyanphenylamidoameisensäure. Sm. 61—62° (C. 1904 [2] 102).
- 70) 2-Amidophenylimid d. Bernsteinsäure. Sm. 230—232° u. Zers. (A. 337, 46 C. 1903 [1] 1336).
- 71) 3-Amidophenylimid d. Bernsteinsäure. Sm. 196—198° (A. 327, 47 C. 1903 [1] 1336).
- 72) 4-Amidophenylimid d. Bernsteinsäure. Sm. 236° (A. 327, 25 C. 1903 [1] 1336).
- $C_{10}H_{10}O_2N_4$ 9) 1-Phenylamido-5-Methyl-1,2,3-Triazol-4-Carbonsäure + H_2O . Sm. 162° (wasserfrei) (A. 325, 158 C. 1903 [1] 644).
- 10) Azid d. α -Benzoylamidopropionsäure. Sm. 54° (J. pr. [2] 70, 145 C. 1904 [2] 1394).
- $C_{10}H_{10}O_2Cl_2$ *3) 3,6-Dichlor-5-Isopropyl-2-Methyl-1,4-Benzochinon. Sm. 99° (A. 336, 26 C. 1904 [2] 1467).
- 11) 3,4-Dichlormethylenäther d. 3,4-Dioxy-1-Propylbenzol. Sd. 142 bis 145°₁₀ (C. r. 138, 423 C. 1904 [1] 797).
- 12) Dichlormethylenäther d. 3,4-Dioxy-1-Isopropylbenzol. Sd. 131 bis 134°₁₂ (C. r. 138, 1703 C. 1904 [2] 436).
- 13) Benzot d. $\alpha\gamma$ -Dichlor- β -Oxypropan. Sd. 296° (C. 1903 [1] 134).
- $C_{10}H_{10}O_2Cl_4$ 2) Diäthyläther d. 2,4,5,6-Tetrachlor-1,3-Dioxybenzol. Sm. 73° (Am. 31, 381 C. 1904 [1] 1409).
- $C_{10}H_{10}O_2Br_2$ *17) Methylester d. i- $\alpha\beta$ -Dibrom- β -Phenylpropionsäure. Sm. 117° (Soc. 83, 670 C. 1903 [2] 115).
- 21) 3-Methyläther d. 2,5-Dibrom-3,4-Dioxy-1-Propenylbenzol. Sm. 102° (A. 329, 25 C. 1903 [2] 1436).
- 22) Methyläther d. 5-Brom-3-Oxy-4-Keto-1-[β -Brompropyliden]-1,4-Dihydrobenzol. Zers. oberh. 140° (A. 329, 13 C. 1903 [2] 1434).
- $C_{10}H_{10}O_2Br_4$ 3) 3-Methyläther d. 2,5-Dibrom-3,4-Dioxy-1-[$\alpha\beta$ -Dibrompropyl]-benzol. Sm. 124° (A. 329, 22 C. 1903 [2] 1435).
- $C_{10}H_{10}O_3N_2$ 35) s-Acetylbenzoylharnstoff. Sm. 187° (B. 36, 3217 C. 1903 [2] 1056).
- 36) Äthyläther d. 5-Oxy-4-Phenyl-1,2,3,6-Dioxdiazin. Sm. 83° (A. 328, 253 C. 1903 [2] 1001).
- 37) Nitril d. 6-Nitro-2-Oxybenzolpropyläther-1-Carbonsäure. Sm. 105° (R. 23, 35 C. 1904 [1] 1137).
- $C_{10}H_{10}O_3Br_2$ 14) Methylenäther d. β -Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 89° (C. 1903 [1] 969).
- $C_{10}H_{10}O_3S$ 2) Verbindung (aus Benzophenonoxim). Sm. 86° (G. 34 [1] 103 C. 1904 [1] 1011).
- $C_{10}H_{10}O_4N_2$ *15) Monomethylester d. Phenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 125—126° (B. 37, 4171 C. 1904 [2] 1703).
- *21) α -Phenylhydrazonäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 98—102° (A. 331, 102 C. 1904 [1] 931).
- 23) α -Oximido- β -Nitro- γ -Keto- α -Phenylbutan. Sm. 84° (A. 329, 258 C. 1904 [1] 32).
- 24) Dimethyläther d. 5,6-Dioxy-1,4-Diketo-1,2,3,4-Tetrahydro-2,3-Benzdiazin? (Hydrazid d. Hemipinsäure). Sm. 227—229° (M. 24, 381 C. 1903 [2] 493).

- $C_{10}H_{10}O_4N_3$ 25) 3-Acetylamidophenylloxaminsäure. Sm. 209° u. Zers. (B. 36, 413 C. 1903 [1] 630).
- 26) 4-Acetylamidophenylloxaminsäure. Sm. oberhalb 270° (B. 36, 414 C. 1903 [1] 630).
- 27) Benzoat d. α -Nitro- α -Oximidopropan. Sm. 85° (G. 33 [1] 511 C. 1903 [2] 938).
- $C_{10}H_{10}O_4N_4$ 8) Dilaktam d. γ - δ -Diimidohexan- $\beta\beta\epsilon\epsilon$ -Tetracarbonsäure- $\beta\epsilon$ -Diamid (A. 332, 128 C. 1904 [2] 189).
- 9) $\alpha\alpha$ -Diamid d. Phenylhydrazonmethan- $\alpha\alpha$, 2-Tricarbonsäure. Sm. 275° (B. 37, 4173 C. 1904 [2] 1703).
- 10) $\alpha\alpha$ -Diamid d. Phenylhydrazonmethan- $\alpha\alpha$, 3-Tricarbonsäure. Sm. oberh. 285° (B. 37, 4174 C. 1904 [2] 1704).
- 11) $\alpha\alpha$ -Diamid d. Phenylhydrazonmethan- $\alpha\alpha$, 4-Tricarbonsäure. Sm. oberh. 285° (B. 37, 4175 C. 1904 [2] 1704).
- 12) α -Semicarbazid d. Phenylimidoessigsäure-2-Carbonsäure. Zers. bei 278–280°. $Ca + 11H_2O$, $Ba + 9\frac{1}{2}H_2O$ (A. 332, 243 C. 1904 [2] 39).
- $C_{10}H_{10}O_4J_2$ 3) Diacetat d. 3-Jod-1-Jodobenzol. Sm. 160° (B. 37, 1303 C. 1904 [1] 1339).
- $C_{10}H_{10}O_5N_2$ *10) 2-Nitrophenylmonamid d. Bernsteinsäure. Sm. 131° (A. 327, 54 C. 1903 [1] 1336).
- *11) 4-Nitrophenylmonamid d. Bernsteinsäure. Sm. 202° (A. 327, 55 C. 1903 [1] 1336).
- 17) Acetyl-4-Nitrophenylamidoessigsäure. Sm. 191–192° (D.R.P. 152012 C. 1904 [2] 70).
- 18) 3-Nitro-4-Acetylamidobenzol-1-Carbonsäure. Sm. 190° (B. 37, 1029 C. 1904 [1] 1207).
- 19) Äthylester d. 2-Nitrophenylloxaminsäure. Sm. 113° (Soc. 81, 1568 C. 1903 [1] 157).
- 20) Äthylester d. 4-Nitrophenylloxaminsäure. Sm. 166° (Soc. 81, 1570 C. 1903 [1] 158).
- 21) 3-Nitrophenylmonamid d. Bernsteinsäure. Sm. 181–182° (A. 327, 54 C. 1903 [1] 1336).
- $C_{10}H_{10}O_6N_2$ 11) Methylenäther d. 2,6-Dinitro-3,4-Dioxy-1-Propylbenzol. Sm. 121° (Ar. 242, 90 C. 1904 [1] 1007).
- 12) α -Oxy- γ -Keto- α -[2,4-Dinitrophenyl]butan. Sm. 63–64° (M. 23, 1003 C. 1903 [1] 292).
- 13) Dimethylester d. 6-Nitro-4-Amidobenzol-1,3-Dicarbonsäure. Sm. 153° (G. 33 [2] 288 C. 1904 [1] 265).
- 14) Äthylester d. 4,6-Dinitro-1-Methylbenzol-3-Carbonsäure. Sm. 61–62° (G. 33 [2] 279 C. 1904 [1] 265).
- 15) Amid d. Oxyessig-2-Nitrophenyläthersäure-4-Carbonsäuremethylester. Sm. 186° (A. 325, 336 C. 1903 [1] 771).
- $C_{10}H_{10}O_8N_4$ 3) Propylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 139° (Soc. 85, 652 C. 1904 [2] 310).
- 4) Isopropylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 177,5° (Soc. 85, 652 C. 1904 [2] 310).
- $C_{10}H_{10}O_8N_6$ C 35,1 — H 2,9 — O 37,4 — N 24,6 — M. G. 342.
- 1) Verbindung + 2H₂O (aus Alloxan u. Glykol) (A. 333, 68 C. 1904 [2] 772).
- $C_{10}H_{10}O_8S_2$ 1) 1,3-Phenylendi[Sulfonessigsäure]. $Na_2 + 3H_2O$ (J. pr. [2] 68, 327 C. 1903 [2] 1171).
- $C_{10}H_{10}N_2S$ 9) Methyläther d. 5-Merkapto-1-Phenylpyrazol. Sd. 142–143°₁₄ (A. 331, 223 C. 1904 [1] 1220).
- 10) 5-Thiocarbonyl-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 109°; Sd. 294° (B. 37, 2775 C. 1904 [2] 711).
- 11) 4-Thiocarbonyl-2-Äthyl-4,5-Dihydro-1,3-Benzdiazin. Sm. 203 bis 204° u. Zers. (C. 1903 [1] 1270).
- $C_{10}H_{10}N_3Cl$ 3) 5-Chlor-4-Amido-3-Methyl-1-Phenylpyrazol. Sm. 49°. HCl (D.R.P. 153861 C. 1904 [2] 680).
- $C_{10}H_{10}ClBr$ 1) α -Chlor- β -Brom- α -Phenyl- α -Buten. Sd. 140–145°₈ (B. 36, 774 C. 1903 [1] 835).
- $C_{10}H_{11}ON$ *2) γ -Imido- α -Keto- α -Phenylbutan (Benzoylacetamin). Sm. 143° (B. 37, 585 C. 1904 [1] 940).

- $C_{10}H_{11}ON$ *7) 2-Oximido-1,2,3,4-Tetrahydronaphtalin (*B.* 36, 709 *C.* 1903 [1] 818).
 *46) 1-Oximido-2-Methyl-2,3-Dihydroinden. Sm. 104° (*Soc.* 83, 916 *C.* 1903 [2] 504).
 51) β -Amido- γ -Keto- α -Phenyl- α -Buten. Sm. 125° (*Soc.* 83, 378 *C.* 1903 [1] 845, 1144).
 52) γ -Oximido- α -[4-Methylphenyl]propen. Sm. 135—136° (*B.* 36, 851 *C.* 1903 [1] 975).
 53) 1-[α -Amidoäthyl]benzfuran. Sd. 140°₂₀. HCl, (2HCl, PtCl₄), (HCl, AuCl₃), (HCl, HgCl₂), HBr, HJ (*B.* 36, 2868 *C.* 1903 [2] 832).
 54) Methyläther d. 3-Oxy-2-Methylindol. Sm. 82—83° (*G.* 33 [1] 321 *C.* 1903 [2] 281).
 55) Laktam d. γ -Amido- γ -Phenylbuttersäure. Sm. 91° (*B.* 36, 174 *C.* 1903 [1] 445).
 56) Amid d. α -Phenylpropen- γ -Carbonsäure. Sm. 130° (*B.* 36, 174 *C.* 1903 [1] 445).
 57) Amid d. trans-1-Phenyl-R-Trimethylen-2-Carbonsäure. Sm. 187 bis 188° (*B.* 36, 3784 *C.* 1904 [1] 42).
 58) Phenylamid d. Propen- β -Carbonsäure (Ph. d. Methakrylsäure). Sm. 87° (*B.* 36, 1269 *C.* 1903 [1] 1219).
- $C_{10}H_{11}ON_3$ 22) α -[α -Cyanäthyl]- β -Phenylharnstoff. Sm. 135° (*Bl.* [3] 29, 1194 *C.* 1904 [1] 361).
 23) α -Cyanmethyl- α -Methyl- β -Phenylharnstoff. Sm. 83° (*Bl.* [3] 29, 1200 *C.* 1904 [1] 354).
 24) 2-Semicarbazon-2,3-Dihydroinden. Sm. 203—205° (*A.* 336, 3 *C.* 1904 [2] 1465).
 25) Imidoäther d. Phenyleycanarbodiimid. Sm. 126—127° (*B.* 37, 1684 *C.* 1904 [1] 1491).
 26) Aethyläther d. 5-Oxy-1-Phenyl-1,2,3-Triazol. Sm. 58—59° (*A.* 335, 80 *C.* 1904 [2] 1231).
 27) Nitril d. α -[Methyl-4-Nitrosophenylamid]propionsäure. Sm. 75,5° (*B.* 36, 759 *C.* 1903 [1] 962).
- $C_{10}H_{11}OCl$ *14) Chlorid d. d- α -Phenylpropan- β -Carbonsäure. Sd. 120—121°₁₅ (*Soc.* 83, 1008 *C.* 1903 [2] 663; *Soc.* 85, 447 *C.* 1904 [1] 1445).
 15) Chlorid d. i- α -Phenylpropan- β -Carbonsäure. Fl. (*Soc.* 83, 915 *C.* 1903 [2] 504).
- $C_{10}H_{11}OBr$ 8) p-Brom-p-Oxy-1,2,3,4-Tetrahydronaphtalin. Sm. 112° (*C. r.* 139, 673 *C.* 1904 [2] 1654).
- $C_{10}H_{11}OBr_3$ *2) Methyläther d. 3-Brom-4-Oxy-1-[$\alpha\beta$ -Dibrompropyl]benzol. Sm. 112,5° (*B.* 37, 1546 *C.* 1904 [1] 1437).
 8) 2,6,p-Tribrom-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 50—51° (*M.* 24, 72 *C.* 1903 [1] 767).
 9) Methyläther d. p-Brom-2-Oxy-1-[$\alpha\beta$ -Dibrompropyl]benzol. Sm. 84 bis 85° (*B.* 36, 1189 *C.* 1903 [1] 1179).
 10) Methyläther d. 3,6-Dibrom-5-Oxy-2-Brommethyl-1,4-Dimethylbenzol. Sm. 122—124° (*A.* 334, 302 *C.* 1904 [2] 985).
- $C_{10}H_{11}O_2N$ *11) Methyl-4-Acetylamidophenylketon. Sm. 166—167° (*B.* 36, 394 *C.* 1903 [1] 723).
 *54) Methyläther d. 5-Oxy-1,3-Dimethylbenzoxazol. Sm. 71—72° (*B.* 36, 892 *C.* 1903 [1] 966).
 67) γ -Nitro- α -Phenyl- β -Methylpropen. Fl. (*C.* 1904 [1] 1496).
 68) trans-1-[p-Amidophenyl]-R-Trimethylen-2-Carbonsäure. HCl (*B.* 36, 3786 *C.* 1904 [1] 43).
 69) Acetat d. γ -Oxy- β -[2-Pyridyl]propen. Sd. 140—144°₁₉. (2HCl, PtCl₄) (*B.* 37, 744 *C.* 1904 [1] 1090).
 70) Methylamid d. Benzoylessigsäure. Sm. 104—105° (*C.* 1904 [2] 905).
- $C_{10}H_{11}O_2N_3$ *20) Aethyläther d. 3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 152° (*B.* 36, 3146 *C.* 1903 [2] 1073).
 25) Monosemicarbazon d. $\alpha\beta$ -Diketo- α -Phenylpropan. Sm. 213° u. Zers. (*B.* 36, 3187 *C.* 1903 [2] 939).
 26) Methyläther d. 3-Oxy-5-Keto-4-Methyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 95° (*B.* 36, 3149 *C.* 1903 [2] 1073).
- $C_{10}H_{11}O_2Cl$ 17) Methyläther d. 3,4-Dioxy-1-[α -Chlorpropyl]benzol. Fl. 2 + PtCl₄ + Pyridin, + AuCl₃ + Pyridin (*C.* 1904 [2] 1568).

- $C_{10}H_{11}O_2Br$ 19) 3-Methyläther d. 5-Brom-3,4-Dioxy-1-Propenylbenzol (A. 329, 15 C. 1903 [2] 1435).
 20) Methyläther d. 3-Oxy-4-Keto-1-[β -Brompropylen]-1,4-Dihydrobenzol. Fl. (A. 329, 9 C. 1903 [2] 1434).
- $C_{10}H_{11}O_2Br_3$ *1) 3-Methyläther d. 5-Brom-3,4-Dioxy-1-[α - β -Dibrompropyl]benzol. Sm. 138° (A. 329, 12 C. 1903 [2] 1434).
- $C_{10}H_{11}O_2J$ 4) 3-Methyläther d. 5-Jod-3,4-Dioxy-1-Allylbenzol (Jodeugenol). Sm. 78° u. Zers. (C. 1903 [2] 306).
- $C_{10}H_{11}O_3N$ *18) Phenylacetylamidoessigsäure. Sm. 136° (B. 36, 1649 C. 1903 [2] 32).
 *36) syn- γ -Oximido- γ -Phenylbuttersäure. Sm. 129° (M. 24, 82 C. 1903 [1] 769).
 *47) Methylester d. Phenylimidoxyessigmethyläthersäure. Sd. 130 bis 132°₁₂ (Soc. 85, 988 C. 1904 [2] 831).
 *50) 1-Methylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 110–112° (M. 24, 953 C. 1904 [1] 916).
 *57) Acetat d. 2-Acetylamido-1-Oxybenzol. Sm. 124,5° (B. 36, 2050 C. 1903 [2] 383).
 85) Methyläther d. β -Nitro- α -(4-Oxyphenyl)propen. Sm. 48° (47°); Sd. 180–190°₁₂ (B. 20, 2983; A. 329, 263 C. 1904 [1] 32; A. 332, 319 C. 1904 [2] 651).
 86) Äthyläther d. β -Nitro- α -Oxy- α -Phenyläthan. Sd. 143°₁₄ (A. 328, 242 C. 1903 [2] 999).
 87) 3,4-Methylenäther d. β -Oximido- α -[3,4-Dioxyphenyl]propan. Sm. 86–87° (A. 332, 332 C. 1904 [2] 652).
 88) Anhydrid d. β -Diisonitrosoanethol. Sm. 128° (B. 36, 3022 C. 1903 [2] 1002).
 89) 2-Acetylphenylamidoessigsäure. Sm. 225° (B. 32, 3234). — *III, 96.
 90) α -(4-Methoxyphenyl)imidopropionsäure (G. 34 [2] 272 C. 1904 [2] 1454).
 91) 2-Äthylformylamidobenzol-1-Carbonsäure. Sm. 119,5° (B. 36, 1806 C. 1903 [2] 284).
 92) Methylester d. Methylphenyloxaminsäure. Sd. 170–175°₁₃ (Soc. 85, 988 C. 1904 [2] 831).
 93) Methylester d. 4-Methylphenyloxaminsäure. Sm. 145° (Soc. 85, 995 C. 1904 [2] 831).
 94) Phenylamid d. Acetoxylessigsäure. Sm. 89–90° (B. 37, 3975 C. 1904 [2] 1605).
 95) Oxim d. Verbindung $C_{10}H_{10}O_3$ (aus Isosafrol). Sm. 89° (B. 36, 3580 C. 1903 [2] 1363).
- $C_{10}H_{11}O_3N_3$ *1) Benzoylamidoacetylarnstoff (J. pr. [2] 70, 241 C. 1904 [2] 1462).
 17) 3,5-Diketo-2-Acetyl-4-Methyl-1-Phenyltetrahydro-1,2,4-Triazol. Sm. 94–95° (B. 36, 3151 C. 1903 [2] 1073).
 18) Mono[4-Methylphenylamid] d. Oximidomalonaminsäure. Sm. 183° u. ger. Zers. (Soc. 83, 38 C. 1903 [1] 73, 441).
- $C_{10}H_{11}O_3Cl$ *5) 4-Chloracetat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Fl. (Ar. 240, 639 C. 1903 [1] 24).
- $C_{10}H_{11}O_3Br_3$ 6) 3-Methyläther d. 2,5-Dibrom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 127–128° (A. 329, 27 C. 1903 [2] 1436).
- $C_{10}H_{11}O_4N$ *2) α -Oxy- γ -Keto- α -(2-Nitrophenyl)butan (o-Nitrophenylmilchsäureketon) (D.R.P. 146294 C. 1903 [2] 1299).
 65) Methylenäther d. 6-Nitro-3,4-Dioxy-1-Propylbenzol (Nitrodihydro-safrol). Sm. 36° (Ar. 242, 86 C. 1904 [1] 1007).
 66) Aldehyd d. 2-Acetylamido-3,4-Dioxybenzol-3-Methyläther-1-Carbonsäure. Sm. 97° (C. 1903 [2] 31).
 67) Methylester d. 3-Acetylamido-4-Oxybenzol-1-Carbonsäure. Sm. 198° (A. 325, 320 C. 1903 [1] 770).
 68) Dimethylester d. Phenylamin-NN-Dicarbonsäure. Sm. 142–143° (B. 37, 3682 C. 1904 [2] 1495).
 69) β -Oxyäthylester d. Benzoylamidoameisensäure. Sm. 148° (B. 36, 3220 C. 1903 [2] 1056).
 70) Acetat d. 5-Nitro-2-Oxy-1,4-Dimethylbenzol. Sm. 72–73° (B. 37, 2594 C. 1904 [2] 660).
- $C_{10}H_{11}O_4N_3$ *3) 2-Nitro-1,4-Di[Acetylamido]benzol (D.R.P. 146916 C. 1904 [1] 234; D.R.P. 152717 C. 1904 [2] 799).

- $C_{10}H_{11}O_4N_3$ 16) 4-Nitro-1,3-Di[Acetylamido]benzol (D. R. P. 147729 *C.* 1904 [1] 235).
- $C_{10}H_{11}O_5N$ 41) γ -Keto- α -[4-Nitrophenyl]butan. Sm. 40—41° (*B.* 37, 1994 *C.* 1904 [2] 26).
- 42) Säure (aus d. Amid d. Oxyessig-2-Nitrophenyläthersäure-4-Carbonsäuremethylester). Sm. 191° (*A.* 325, 338 *C.* 1903 [1] 771).
- 43) Oxim d. Maticosäurealdehyd. Sm. 154° (*B.* 35, 4358 *C.* 1903 [1] 331).
- 44) Aethylester d. α -Oxy- α -[Nitrophenyl]essigsäure. Sm. 49—50° (*B.* 37, 949 *C.* 1904 [1] 1218).
- 45) 3-Aethylester d. 4-Oxybenzol-1-Carbonsäure-3-Amidoameisensäure. Sm. noch nicht bei 280° (*A.* 325, 323 *C.* 1903 [1] 770).
- 46) Aethyl-6-Nitro-2-Methylphenylester d. Kohlensäure. Sm. 32—33° (*Am.* 32, 21 *C.* 1904 [2] 696).
- 47) Aethyl-6-Nitro-3-Methylphenylester d. Kohlensäure. Fl. (*Am.* 32, 20 *C.* 1904 [2] 696).
- 48) Aethyl-2-Nitro-4-Methylphenylester d. Kohlensäure. Sm. 56° (*Am.* 32, 15 *C.* 1904 [2] 695).
- 49) Verbindung (aus d. Glykosaminsäure). Sm. 125° (*B.* 35, 4014 *C.* 1903 [1] 390).
- $C_{10}H_{11}O_5N_3$ 12) Aethylester d. α -[3-Nitrophenyl]harnstoff- β -Carbonsäure. Sm. 188° (*Soc.* 81, 1569 *C.* 1903 [1] 157).
- 13) Aethylester d. α -[4-Nitrophenyl]harnstoff- β -Carbonsäure. Sm. 220° u. Zers. (*Soc.* 81, 1570 *C.* 1903 [1] 158).
- $C_{10}H_{11}O_5Br$ 1) 2-Brom-3,4,5-Trioxymethyläther-1-Carbonsäure. Sm. 151° (*M.* 19, 598). — *II, 1112.
- $C_{10}H_{11}O_6Br$ 1) Gem. Anhydrid d. Essigsäure u. β -Brom- α -Keto- β -Buten- α - γ -Dicarbonsäure- α -Aethylester. Fl. (*R.* 23, 151 *C.* 1904 [2] 194).
- $C_{10}H_{11}O_8N_5$ 3) 2,4,6-Trinitro-5-Aethylnitramido-1,3-Dimethylbenzol. Sm. 85° (*R.* 21, 331 *C.* 1903 [1] 78).
- $C_{10}H_{11}O_{10}N_7$ 1) 2,4,6-Trinitro-1,3-Di[Aethylnitramido]benzol. Sm. 165° (*R.* 21, 326 *C.* 1903 [1] 80).
- 2) C 30,8 — H 2,8 — O 41,1 — N 25,2 — M. G. 389.
- $C_{10}H_{11}NS$ 10) Allylamid d. Benzolthiocarbonsäure. Sd. 214—215°₁₇ (*B.* 37, 878 *C.* 1904 [1] 1004).
- $C_{10}H_{11}N_2Br$ 1) 4-oder-5-Brom-1-Methyl-2-[3-Pyridyl]-2,3-Dihydropyrrol. (HBr, Br₂) (*C. r.* 137, 862 *C.* 1904 [1] 104).
- $C_{10}H_{11}N_3S$ *2) Aethyläther d. α -Cyanimido- α -Phenylamido- α -Merkaptomethan. (Aethylecyanamid d. Phenylamidothioameisensäure). Sm. 119—120° (*A.* 331, 297 *C.* 1904 [2] 33).
- 5) α -[α -Cyanäthyl]- β -Phenylthioharnstoff (*Bl.* [3] 29, 1195 *C.* 1904 [1] 361).
- $C_{10}H_{11}ClS_3$ 1) Verbindung (aus Acetylchlorid u. Trithiodibutolaktone) (*B.* 34, 3405). — *III, 594.
- $C_{10}H_{12}ON_2$ 41) α -Methylphenylhydrazon- β -Ketopropan. Sm. 64° (*A.* 247, 201). — IV, 757.
- 42) Phenylhydrazid d. Crotonsäure. Sm. 190° (*B.* 36, 1100 *C.* 1903 [1] 1140).
- $C_{10}H_{12}OBr_2$ *2) 3,5-Dibrom-2-Oxy-4-Isopropyl-1-Methylbenzol. Sd. 219—220° (*A.* 333, 358 *C.* 1904 [2] 1116).
- 7) 2,6-Dibrom-4-Oxy-1-tert. Butylbenzol. Sm. 70—71° (*Soc.* 83, 330 *C.* 1903 [1] 876).
- 8) 2,6-Dibrom-3-Oxy-4-Isopropyl-1-Methylbenzol. Sd. 180—186°₁₇₋₂₀ (*M.* 24, 70 *C.* 1903 [1] 767; *A.* 333, 354 *C.* 1904 [2] 1116).
- 9) β -Bromäthyläther d. 5-Brom-4-Oxy-1,3-Dimethylbenzol. Sd. 172 bis 173°₁₃ (*B.* 36, 2875 *C.* 1903 [2] 834).
- 10) 2,4-Dibrom-1-Keto-3-Methyl-6-Isopropyl-1,4-Dihydrobenzol. Fl. (*M.* 24, 68 *C.* 1903 [1] 767).
- $C_{10}H_{12}O_2N_2$ *19) 1,2-Di[Acetylamido]benzol. Sm. 186° (*C.* 1904 [1] 102; *B.* 37, 3116 *C.* 1904 [2] 1316).
- *20) 1,3-Di[Acetylamido]benzol. Sm. 192—195° (*A.* 327, 33 *C.* 1903 [1] 1336).
- *37) α -Phenylhydrazonbuttersäure. Sm. 144—145° (*A.* 331, 124 *C.* 1904 [1] 932).
- *45) Aethylester d. Benzylidenhydrazidoameisensäure. Sm. 135—136°. Hg, Ag (P. GUTMANN, Dissertat., Heidelberg 1903).

- $C_{10}H_{12}O_2N_2$ 76) Methyläther d. α -Acetylamido- α -Phenylimido- α -Oxymethan. Fl. (2HCl, PtCl₄), Ag (C. 1904 [1] 1559).
 77) Methyläther d. α -Acetylphenylamido- α -Imido- α -Oxymethan. Sm. 102° HCl (C. 1904 [1] 1560).
 78) 3,6-Diacetyl-2,5-Dimethyl-1,4-Diazin. Sm. 98—99° (A. 325, 195 C. 1903 [1] 647).
 79) Methylester d. Methylphenylhydrazonessigsäure. Sm. 158—160° (B. 37, 3592 C. 1904 [2] 1378).
 80) Mono[4-Methylphenyl]diamid d. Malonsäure + $\frac{1}{2}H_2O$. Sm. 163 bis 164° u. ger. Zers. (Soc. 83, 38 C. 1903 [1] 441).
- $C_{10}H_{12}O_2N_4$ 6) Amid d. 4-Methylphenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 173—174° (B. 37, 4178 C. 1904 [2] 1705).
 7) Amid d. 2,4-Dimethylphenylnitrosohydrazonessigsäure (J. pr. [2] 67, 412 C. 1903 [1] 1347).
- $C_{10}H_{12}O_2Br_2$ *11) 3-Methyläther d. 3,4-Dioxy-1-[$\alpha\beta$ -Dibrompropyl]benzol. Sm. 95° (A. 329, 9 C. 1903 [2] 1434).
- $C_{10}H_{12}O_2S$ *3) α -Merkaptopropionbenzyläthersäure. Sm. 76,5° (H. 42, 356 C. 1904 [2] 979).
 7) β -Merkaptopropionbenzyläthersäure. Sm. 81—81,5° (H. 42, 352 C. 1904 [2] 979).
 8) 1,2,3,4-Tetrahydronaphtalin-5-Sulfinsäure. Zers. bei 103—105° (Soc. 85, 757 C. 1904 [2] 449).
- $C_{10}H_{12}O_2S_2$ 3) Diäthyläther d. 2,5-Dimerkapto-1,4-Benzochinon. Sm. 159° (A. 336, 158 C. 1904 [2] 1300).
- $C_{10}H_{12}O_3N_2$ *6) Methyläther d. syn-4-Oxy-1-[$\alpha\beta$ -Dioximidopropyl]benzol. Sm. 121° (A. 332, 318 C. 1904 [2] 651).
 *7) Methyläther d. anti-4-Oxy-1-[$\alpha\beta$ -Dioximidopropyl]benzol. Sm. 206° u. Zers. (B. 36, 3021 C. 1903 [2] 1002; A. 329, 268 C. 1904 [1] 32).
 *53) 5-Nitro-2,4-Dimethylphenylamid d. Essigsäure. Sm. 159° (G. 33 [2] 283 C. 1904 [1] 265).
 *75) 2-Amid d. Benzol-1-Carbonsäure-2-Amidoessigsäure-1-Methylester. Sm. 195° (D. R. P. 137846 C. 1903 [1] 108).
 87) Nitrosit d. β -Phenyl- α -Buten. Zers. bei 110° (B. 36, 3001 C. 1903 [2] 949).
 88) Acetyl-4-Amidophenylamidoessigsäure (D. R. P. 152012 C. 1904 [2] 70).
 89) Methylester d. Phenylhydrazonoxyessigmethyläthersäure. Sm. 123—124° (126°) (A. 306, 15; Soc. 85, 987 C. 1904 [2] 830).
 90) Methylester d. β -Phenylureidoessigsäure. Sm. 143° (J. pr. [2] 70, 246 C. 1904 [2] 1463).
 91) Äthylester d. α -[2-Oxybenzyliden]hydrazin- β -Carbonsäure. Sm. 127° (P. GUTMANN, Dissert., Heidelberg 1903).
 92) Äthylester d. α -Benzoylhydrazin- β -Carbonsäure. Sm. 126° (P. GUTMANN, Dissert., Heidelberg 1903).
 93) N-Acetat d. β -Phenylamido- α -Oximido- α -Oxyäthan. Sm. 107° (Soc. 81, 1574 C. 1903 [1] 158).
 94) 3-Amid d. 3-Carboxylphenylamidoameisensäure. Sm. 159—160° (C. 1904 [2] 102).
 95) Äthoxylamid d. Phenylloxaminsäure. Sm. 176° (Soc. 81, 1567 C. 1903 [1] 157).
 96) Verbindung (aus Bernsteinsäureanhydrid u. 1,3-Diamidobenzol). Sm. 166° (183°) (A. 327, 39 C. 1903 [1] 1336).
 97) Verbindung (aus Bernsteinsäureanhydrid u. 1,4-Diamidobenzol). Sm. 183° (A. 327, 39 C. 1903 [1] 1336).
- $C_{10}H_{12}O_3N_4$ 3) Amid d. 2-Methoxyphenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 143° (B. 37, 4179 C. 1904 [2] 1705).
 4) Acetylhydrazid-Phenylhydrazid d. Oxalsäure. Sm. 220—221° (B. 37, 2426 C. 1904 [2] 341).
- $C_{10}H_{12}O_3Br_2$ *5) 3-Methyläther d. 5-Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 144° (A. 329, 18 C. 1903 [2] 1435).
- $C_{10}H_{12}O_3S$ 6) α -Merkapto- α -Oxypropion-S-Benzyläthersäure. Sm. 82° (B. 36, 299 C. 1903 [1] 499).

- $C_{10}H_{12}O_8S$ 7) 1,2,3,4-Tetrahydronaphtalin-5-Sulfonsäure. Ba + 3 H₂O (*Soc.* 85, 756 *C.* 1904 [2] 449).
- $C_{10}H_{12}O_4N_2$ *22) 1,4-Phenylendi[Amidoessigsäure]. Sm. 233—235° u. Zers. (*D.R.P.* 145062 *C.* 1903 [2] 1036).
- *43) β -[β -Phenylureido]- α -Oxypropionsäure. Sm. 180° (*B.* 37, 338 *C.* 1904 [1] 647).
- 45) Methylenäther d. 6-Nitro-2-Amido-3,4-Dioxy-1-Propylbenzol. Sm. 76,5° (*Ar.* 242, 91 *C.* 1904 [1] 1007).
- 46) 4-Methyläther d. α -Oximido- β -Nitro- α -[4-Oxyphenyl]propan. Sm. 87° (*A.* 329, 262 *C.* 1904 [1] 32).
- 47) β -Aethyläther d. β -Imido- α - β -Dioxy- α -[2-Nitrophenyl]äthan. HCl (*B.* 37, 949 *C.* 1904 [1] 1217).
- 48) $\alpha\alpha$ -Di[5-Keto-3-Methyl-4,5-Dihydro-4-Isloxazolyl]äthan. Sm. 157° u. Zers. (*A.* 332, 20 *C.* 1904 [1] 1565).
- 49) Aethylester d. 3-Nitro-4-Methylamidobenzol-1-Carbonsäure. Sm. 101—102° (*B.* 37, 1030 *C.* 1904 [1] 1207).
- 50) Monoäthylester d. 3,6-Dimethyl-1,2-Diazin-4,5-Dicarbonsäure. Sm. 155—156°. K (*B.* 36, 508 *C.* 1903 [1] 654).
- 51) Amid d. Oxyessig-2-Amidophenyläthersäure-4-Carbonsäure-methylester. Sm. 178° (*A.* 325, 337 *C.* 1903 [1] 771).
- 52) Amid d. 3,4-Dioxybenzoldimethyläther-1,2-Dicarbonsäure + H₂O? Sm. 203—205° (221—223°) (*M.* 24, 388 *C.* 1903 [2] 493).
- $C_{10}H_{12}O_4N_4$ 6) Aethylester d. 2,6-Diketo-3,7-Dimethylpurin-8-Carbonsäure. Sm. 300° (*D.R.P.* 153121 *C.* 1904 [2] 626).
- $C_{10}H_{12}O_4S$ 13) Benzylidenacetonydsulfonsäure. Na, K, Ba (*B.* 37, 4043 *C.* 1904 [2] 1648).
- 14) β -[4-Methylphenyl]sulfonpropionsäure. Sm. 110—113° (*Am.* 31, 175 *C.* 1904 [1] 876).
- $C_{10}H_{12}O_5N_2$ *2) 3,5-Dinitro-2-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 116—117° (*A.* 333, 359 *C.* 1904 [2] 1116).
- $C_{10}H_{12}O_5N_4$ 2) β -Acetyl- $\alpha\alpha'$ -Dimethylisoallitursäure. Sm. 193—194° (*A.* 333, 127 *C.* 1904 [2] 894).
- $C_{10}H_{12}O_6N_2$ *1) Diäthyläther d. 4,6-Dinitro-1,3-Dioxybenzol. Sm. 133° (130°) (*R.* 23, 123 *C.* 1904 [2] 206; *Am.* 32, 303 *C.* 1904 [2] 1385).
- *7) β -Dinitro-1-Isopropyl- β -Dihydrobenzol-4-Carbonsäure (*M.* 25, 465 *C.* 1904 [2] 333; *B.* 37, 2431 *C.* 1904 [2] 334).
- 8) Dimethyläther d. β -Nitro- $\alpha\alpha$ -Dioxy- α -[4-Nitrophenyl]äthan. Sm. 112,5°; Zers. oberh. 200° (*A.* 325, 17 *C.* 1903 [1] 287).
- 9) $\delta\epsilon$ -Diimido- $\beta\eta$ -Diketooktan- γ -Dicarbonsäure. Sm. 230° (*A.* 332, 141 *C.* 1904 [2] 191).
- 10) Aethylester d. Tetronsäureazoacetessigsäure. Sm. 128° (*A.* 325, 179 *C.* 1903 [1] 646).
- 11) 3-Aethylester-5-Glykolester d. 4-Methylpyrazol-3,5-Dicarbon-säure. Sm. 181° (*A.* 325, 180 *C.* 1903 [1] 646).
- $C_{10}H_{12}O_6N_4$ 6) 2,4,6-Trinitro-5-Aethylamido-1,3-Dimethylbenzol. Sm. 122° (*R.* 21, 331 *C.* 1903 [1] 78).
- $C_{10}H_{12}NBr$ 2) 8-Brom-5-Amido-1,2,3,4-Tetrahydronaphtalin. Sm. 42°. HCl (*Soc.* 85, 745 *C.* 1904 [2] 447).
- 3) 5-Brom-6-Amido-1,2,3,4-Tetrahydronaphtalin. Sm. 52,5° (*Soc.* 85, 731 *C.* 1904 [2] 116, 339).
- 4) 8-Brom-6-Amido-1,2,3,4-Tetrahydronaphtalin. Sm. 52° (*Soc.* 85, 731 *C.* 1904 [2] 116, 339).
- $C_{10}H_{12}Cl_2J_2$ 2) $\alpha\beta$ -Dichloräthyl-4-Aethylphenyljodoniumjodid. Zers. bei 69° (*A.* 327, 297 *C.* 1903 [2] 352).
- $C_{10}H_{12}Cl_3J$ 2) $\alpha\beta$ -Dichloräthyl-4-Aethylphenyljodoniumchlorid. Zers. bei 134°. 2 + HgCl₂, 2 + PtCl₄ + 2H₂O (*A.* 327, 297 *C.* 1903 [2] 352).
- $C_{10}H_{12}ON$ *26) anti-2,4,6-Trimethylbenzaloxim. Sm. 124° (*B.* 36, 331 *C.* 1903 [1] 576).
- *27) syn-2,4,6-Trimethylbenzaloxim. Sm. 180—181° (*B.* 36, 330 *C.* 1903 [1] 576).
- *57) Aethylphenylamid d. Essigsäure. Sm. 55° (*B.* 35, 4188 *C.* 1903 [1] 143).
- *91) 2-Methylbenzimidoäthyläther. *Sd.* 106—118°₂₀₋₂₅ (*Soc.* 83, 770 *C.* 1903 [2] 200, 437).

- $C_{10}H_{13}ON$ *102) Propylamid d. Benzolcarbonsäure. Sm. 83° (*C. r.* 135, 973 *C.* 1903 [1] 232).
- 103) Methyläther d. α -Aethylimido- α -Oxy- α -Phenylmethan. Sd. 209 bis 212°₇₈₀ (*Soc.* 83, 323 *C.* 1903 [1] 580, 876).
- 104) Aethyläther d. α -Methylimido- α -Oxy- α -Phenylmethan. Sd. 215° (*Soc.* 83, 325 *C.* 1903 [1] 581, 876).
- 105) isom. anti-4-Isopropylbenzaldoxim. Sm. 35° (*B.* 37, 3044 *C.* 1904 [2] 1215).
- 106) Aldehyd d. 6-Aethylamido-1-Methylbenzol-3-Carbonsäure. Sm. 69,5° (*B.* 37, 863 *C.* 1904 [1] 1207).
- 107) Aldehyd d. 4-Methyläthylamidobenzol-1-Carbonsäure. Sm. 14°; Sd. 180°₂₀ (*B.* 37, 862 *C.* 1904 [1] 1206).
- $C_{10}H_{13}ON_3$ *6) α -Semicarbazon- α -Phenylpropan. Sm. 178—179° (*A.* 325, 147 *C.* 1903 [1] 644).
- 11) β -Semicarbazon- α -Phenylpropan. Sm. 188—189° (*A.* 325, 146 *C.* 1903 [1] 644).
- 12) α -Semicarbazon- β -Phenylpropan. Sm. 156—157° (*C. r.* 137, 1261 *C.* 1904 [1] 445). — *III, 41.
- 13) 1-Semicarbazonmethyl-4-Aethylbenzol. Sm. 199° (*C. r.* 136, 558 *C.* 1903 [1] 832).
- 14) Amid d. 2,4-Dimethylhydrazonessigsäure. Sm. 184° (*J. pr.* [2] 67, 410 *C.* 1903 [1] 1347).
- $C_{10}H_{13}OCl$ 4) γ -Chlor- β -Oxy- α -Phenyl- β -Methylpropan. Sd. 155°₂₅ (*C. r.* 138, 768 *C.* 1904 [1] 1196).
- $C_{10}H_{13}OBr$ 14) Bromumbellulon. Sd. 140—145°₂₀ (*Soc.* 85, 642 *C.* 1904 [1] 1607 *C.* 1904 [2] 330).
- $C_{10}H_{13}O_2N$ *49) γ -Amido- γ -Phenylbuttersäure. Sm. 216°. HCl (*B.* 36, 174 *C.* 1903 [1] 445).
- *66) Inn. Anhydrid d. 4-Trimethylamidobenzol-1-Carbonsäure + H₂O. Sm. 255° (wasserfrei) (*B.* 37, 414 *C.* 1904 [1] 943).
- *67) N-Anhydrid d. Dimethylphenylammoniumessigsäure + H₂O. Sm. 123—124°. HCl, (2HCl, PtCl₄), Pikrat (*A.* 326, 326 *C.* 1903 [1] 1089; *B.* 37, 415 *C.* 1904 [1] 943; *B.* 37, 1860 *C.* 1904 [1] 1487).
- *73) Methylester d. 4-Dimethylamidobenzol-1-Carbonsäure. Sm. 102° (*B.* 37, 415 *C.* 1904 [1] 943).
- *81) Aethylester d. Methylphenylamidoameisensäure. Sd. 127—128°₁₃ (*B.* 36, 2477 *C.* 1903 [2] 559).
- *124) Aethylester d. 2,6-Dimethylpyridin-3-Carbonsäure. Sd. 140—142°₃₀ (*B.* 36, 2857 *C.* 1903 [2] 1129).
- 136) Methylenäther d. 6-Amido-3,4-Dioxy-1-Propylbenzol. Sm. 24°; Sd. 156°_{11,5}. HCl (*Ar.* 242, 89 *C.* 1904 [1] 1007).
- 137) 4-Methyläther d. β -Oximido- α -[4-Oxyphenyl]propan. Sm. 65—66°; Sd. 160—170°. HCl (*A.* 332, 322 *C.* 1904 [2] 651).
- 138) 2-Methyläther d. α -Oximido- α -[2-Oxy-4-Methylphenyl]äthan. Sm. 136° (*C.* 1904 [1] 1597).
- 139) Oxim d. Rheosmin (*C.* 1903 [1] 883).
- 140) Inn. Anhydrid d. 2-Trimethylamidobenzol-1-Carbonsäure + $\frac{1}{2}$ H₂O (Anthränsäurebetaïn). Sm. 224° (227° wasserfrei). (HCl, AuCl₃), HJ + H₂O (*B.* 37, 413 *C.* 1904 [1] 943).
- 141) Methylester d. α -Amido- β -Phenylpropionsäure. Sd. 141°₁₂. HCl (*B.* 37, 1267 *C.* 1904 [1] 1334).
- 142) Methylester d. Methylphenylamidoessigsäure. Sd. 140—141°₁₀ (*B.* 37, 416 *C.* 1904 [1] 943).
- 143) Methylester d. 2-Dimethylamidobenzol-1-Carbonsäure. Sd. 160 bis 161°₃₈. HJ (*B.* 37, 408 *C.* 1904 [1] 942).
- 144) Acetat d. 4-Dimethylamido-1-Oxybenzol. Sm. 78—79° (*A.* 334, 309 *C.* 1904 [2] 986).
- 145) Methylamid d. 3-Oxybenzyläthyläther-1-Carbonsäure. Sm. 64° (*A.* 329, 70 *C.* 1903 [2] 1440).
- 146) Piperidid d. Furan-2-Carbonsäure. Sm. 58° (*B.* 37, 2953 *C.* 1904 [2] 993).
- $C_{10}H_{13}O_2N_3$ 29) Aethyläther d. α -Imido- β -Phenylnitrosamido- α -Oxyäthan. Sm. 98° (*B.* 36, 4304 *C.* 1904 [1] 447).

- C₁₀H₁₃O₂N₃** 30) β -[4-Nitrophenyl]hydrazonbutan. Sm. 128° (119,5—120°) (*B.* 22, 435 *C.* 1904 [1] 15; *B.* 37, 1793 *C.* 1904 [1] 1612).
- 31) Methyläther d. α -Semicarbazon- α -[2-Oxyphenyl]äthan. Sm. 180 bis 182° (*B.* 36, 3589 *C.* 1903 [2] 1365).
- 32) Methyläther d. α -Semicarbazon- α -[3-Oxyphenyl]äthan. Sm. 181 bis 183° (*B.* 36, 3591 *C.* 1903 [2] 1366).
- 33) Amid d. α -[Methyl-4-Nitrosophenyl]amidopropionsäure. Sm. 159,5° (*B.* 36, 761 *C.* 1903 [1] 963).
- 34) Hydrazid d. α -Benzoylamidopropionsäure. Sm. 105—107° (*J. pr.* [2] 70, 142 *C.* 1904 [2] 1394).
- C₁₀H₁₃O₂Cl** *1) 6-Chlor-2,5-Dioxy-4-Isopropyl-1-Methylbenzol. Sm. 70° (*A.* 336, 27 *C.* 1904 [2] 1467).
- C₁₀H₁₃O₃N** 63) γ -Keto- α -Oxy- α -[2-Hydroxylamidophenyl]butan. Sm. 78° (D.R.P. 89978). — *III, 119.
- 64) Aethylamidomethyl-3,4-Dioxyphenylketon. Sm. 185° u. Zers. HCl (D.R.P. 152814 *C.* 1904 [2] 271; *B.* 37, 4153 *C.* 1904 [2] 1744).
- 65) Diäthyläther d. 2-Oximido-5-Oxy-1-Keto-1,2-Dihydrobenzol. Sm. 89,5—91,5° (*J. pr.* [2] 70, 323 *C.* 1904 [2] 1540).
- 66) Epinephrin + $\frac{1}{2}$ H₂O. HCl, HBr, H₂SO₄, Pikrat (*H.* 28, 325; *B.* 36, 1839 *C.* 1903 [2] 303; *B.* 37, 368 *C.* 1904 [1] 677). — *III, 667.
- 67) Methyldamascenin-S. HCl + H₂O (*Ar.* 242, 313 *C.* 1904 [2] 457).
- 68) β -oder- γ -Oxamido- γ -Phenylbuttersäure. Sm. 108° (*B.* 36, 4316 *C.* 1904 [1] 449).
- 69) α -Oxamido- β -Phenylisobuttersäure (*B.* 36, 4314 *C.* 1904 [1] 449).
- 70) 6-Oxy-2-Methyl-5-Propylpyridin-6-Aethyläther-3-Carbonsäure. Sm. 300° u. Zers. (*G.* 33 [2] 166 *C.* 1903 [2] 1283).
- 71) Methyläther d. 3-Dimethylamido-4-Oxybenzol-1-Carbonsäure. Sm. 59,5—60° (*A.* 325, 329 *C.* 1903 [1] 770).
- 72) Aethylester d. 2-Cyan-3-Keto-1-Methyl-R-Pentamethylen-2-Carbonsäure. Sm. 185° (*C.* 1903 [2] 1425).
- 73) Aethylester d. 2-Oxy-3-Methylphenylamidoameisensäure. Sm. 74—76° (*Am.* 32, 22 *C.* 1904 [2] 696).
- 74) Aethylester d. 6-Oxy-3-Methylphenylamidoameisensäure. Sm. 101° (*Am.* 32, 16 *C.* 1904 [2] 696).
- 75) Aethylester d. 2-Oxy-4-Methylphenylamidoameisensäure. Sm. 95° (*Am.* 32, 20 *C.* 1904 [2] 696).
- 76) Aethyl-6-Amido-2-Methylphenylester d. Kohlensäure. HCl, (2HCl, PtCl₄) (*Am.* 31, 492 *C.* 1904 [2] 94; *Am.* 32, 21 *C.* 1904 [2] 696).
- 77) Aethyl-6-Amido-3-Methylphenylester d. Kohlensäure. HCl, (2HCl, PtCl₄) (*Am.* 31, 490 *C.* 1904 [2] 94; *Am.* 32, 20 *C.* 1904 [2] 696).
- 78) Aethyl-2-Amido-4-Methylphenylester d. Kohlensäure. HCl, (2HCl, PtCl₄) (*Am.* 31, 485 *C.* 1904 [2] 94; *Am.* 32, 18 *C.* 1904 [2] 696).
- 79) Monoacetat d. 2-[$\beta\beta'$ -Dioxyisopropyl]pyridin. Fl. (2HCl, PtCl₄ + H₂O) (*B.* 37, 741 *C.* 1904 [1] 1089).
- 80) Verbindung (aus Damasceninjodmethylat). Sm. 118—119° (*Ar.* 242, 319 *C.* 1904 [2] 457).
- C₁₀H₁₃O₃N₃** 7) Methyläther d. β -[4-Nitrophenyl]hydrazon- α -Oxypropan. Sm. 110—111° (*G.* 33 [1] 322 *C.* 1903 [2] 281).
- 8) 5-Nitro-2-Oxy-1,2,3-Trimethyl-2,3-Dihydrobenzimidazol. Sm. 175° (*B.* 36, 3969 *C.* 1904 [1] 177).
- 9) p-Nitro-2-Oxy-1,3,5-Trimethyl-2,3-Dihydrobenzimidazol. Sm. 150° u. Zers. (*B.* 36, 3971 *C.* 1904 [1] 178).
- C₁₀H₁₃O₃N₅** C 47,8 — H 5,2 — O 19,1 — N 27,9 — M. G. 251.
- 1) 8-Acetylamido-2,6-Diketo-1,3,7-Trimethylpurin. Sm. 270° (D.R.P. 139960 *C.* 1903 [1] 859).
- C₁₀H₁₃O₄N** 29) 4-Methyläther d. 6-Nitro-3,4-Dioxy-1-Propylbenzol. Sm. 52° (*Ar.* 242, 93 *C.* 1904 [1] 1007).
- 30) Dimethyläther d. β -Nitro- α -Dioxy- α -Phenyläthan. Sm. 55,5—56° (*A.* 325, 10 *C.* 1903 [1] 287).
- 31) β -Oxyäthylamidomethyl-3,4-Dioxyphenylketon. HCl (D.R.P. 152814 *C.* 1904 [2] 271).
- 32) 2,4,6-Trimethyläther d. 2,4,6-Trioxybenzol-1-Oximidomethylbenzol. Sm. 201—203° (*M.* 24, 868 *C.* 1904 [1] 368).

- $C_{10}H_{13}O_4N$ 33) Aethylester d. 6-Amido-3,5-Dioxy-1-Methylbenzol-2-Carbonsäure. HCl (*B.* 37, 1419 *C.* 1904 [1] 1417).
- $C_{10}H_{13}O_5N$ 34) Aethylester d. α -[2-Furanoyl]amidopropionsäure. Sm. 71—72° (*B.* 37, 2958 *C.* 1904 [2] 993).
- $C_{10}H_{13}O_6N_8$ C 47,0 — H 5,1 — O 31,4 — N 16,5 — M. G. 255.
- $C_{10}H_{13}O_6N_6$ 1) Aethyläther d. 3,5-Dinitro-4-Methylamido-2-Oxy-1-Methylbenzol. Sm. 160° (*J. pr.* [2] 67, 559 *C.* 1903 [2] 240).
- $C_{10}H_{13}O_6N_6$ C 42,4 — H 4,6 — O 28,3 — N 24,7 — M. G. 283.
- $C_{10}H_{13}O_5Cl$ 1) Vernin (oder $C_{16}H_{20}O_8N_8$) (*H.* 41, 462 *C.* 1904 [1] 1656).
- $C_{10}H_{13}O_5Cl$ 2) γ -Lakton d. ζ -Chlor- ϵ -Oxy- β -Ketohehexan- α -Dicarbonsäure- α -Aethylester. Fl. Cu (*C. r.* 136, 435 *C.* 1903 [1] 698).
- $C_{10}H_{13}O_6N_6$ C 40,1 — H 4,3 — O 32,1 — N 23,4 — M. G. 299.
- $C_{10}H_{13}O_6N_6$ 1) 2,4,6-Trinitro-1,3-Di-[Aethylamido]benzol. Sm. 144° (*R.* 21, 325 *C.* 1903 [1] 80).
- $C_{10}H_{13}O_6N_6$ 2) 3,5-Dinitro-4-Methylnitramido-2-Dimethylamido-1-Methylbenzol. Sm. 126—127° (*J. pr.* [2] 67, 527 *C.* 1903 [2] 239).
- $C_{10}H_{13}NS$ 7) Phenylamid d. Thiobuttersäure. Sm. 32—33° (*B.* 36, 588 *C.* 1903 [1] 830).
- $C_{10}H_{13}NS_2$ 8) Methylester d. Aethylphenylamidodithioameisensäure. Sm. 52 bis 53° (*J. pr.* [2] 67, 287 *C.* 1903 [1] 1306).
- $C_{10}H_{13}NS_2$ 9) Aethylester d. Methylphenylamidodithioameisensäure. Sm. 94 bis 95,5° (*J. pr.* [2] 67, 286 *C.* 1903 [1] 1306).
- $C_{10}H_{13}N_3J$ 5) Jodnikotin (*C.* 1903 [2] 123).
- $C_{10}H_{13}N_3S_2$ 2) Aethyläther d. α -[β -Phenylthioureido]- α -Imido- α -Merkaptomethan. Sm. 114° (*Am.* 30, 173 *C.* 1903 [2] 871).
- $C_{10}H_{13}N_3S_3$ 1) β -Methyl- β -[Methylmerkaptophenylimido]methylhydrazidodithioameisensäure (*B.* 37, 2323 *C.* 1904 [2] 312).
- $C_{10}H_{14}ON_2$ *5) 4-Nitroso-1-Diäthylamidobenzol (*C.* 1904 [2] 319).
- *11) 4-Acetylamido-1-Dimethylamidobenzol. Sm. 129° (*A.* 334, 311 *C.* 1904 [2] 986).
- *60) Amid d. α -Methylphenylamidopropionsäure. Sm. 47,5° (*B.* 36, 760 *C.* 1903 [1] 962).
- 62) 2-Methylnitrosamido-1,3,5-Trimethylbenzol. Fl. (*A.* 327, 110 *C.* 1903 [1] 1213).
- 63) Aethyläther d. α -Imido- β -Phenylamido- α -Oxyäthan. Sd. 134°₁₂₀. 2HCl (*B.* 36, 4303 *C.* 1904 [1] 447).
- 64) 4-Aethylamido-3-Methylbenzaldoxim. Sm. 82° (*B.* 37, 864 *C.* 1904 [1] 1207).
- 65) Methyläther d. β -Phenylhydrazon- α -Oxypropan. Sd. 186°₂₄ u. Zers. (*G.* 33 [1] 320 *C.* 1903 [2] 281).
- 66) Amid d. Aethylphenylamidoessigsäure. Sm. 114° (*D. R. P.* 142559 *C.* 1903 [2] 81).
- $C_{10}H_{14}NBr_2$ *2) α β -Dibromcampher. Sm. 112—114° (*B.* 37, 2078 *C.* 1904 [2] 18).
- *11) Dibromdihydroumbellulon. Fl. (*Soc.* 85, 641 *C.* 1904 [1] 1607 *C.* 1904 [2] 329).
- 6) isom. Dibromdihydroumbellulon. Sm. 119—119,5° (*Soc.* 85, 643 *C.* 1904 [1] 1607 *C.* 1904 [2] 330).
- $C_{10}H_{14}OJ_2$ 1) α,α -Dijodcampher. Sm. 108—109° (*B.* 37, 2165, 2182 *C.* 1904 [2] 222).
- $C_{10}H_{14}O_2N_2$ *34) Aethylester d. α -Phenylhydrazidoessigsäure. HCl, Oxalat (*B.* 36, 3883 *C.* 1904 [1] 27).
- *35) Aethylester d. β -Phenylhydrazidoessigsäure. Oxalat (*B.* 36, 3881 *C.* 1904 [1] 26).
- 52) Methylenäther d. 2,6-Diamido-3,4-Dioxy-1-Propylbenzol. Sm. 72°. HCl (*Ar.* 242, 91 *C.* 1904 [1] 1007).
- 53) Peroxyd d. Campherdioxim. Sm. 144,5° (*Soc.* 83, 525 *C.* 1903 [1] 1136, 1353).
- 54) 3,6-Di[Methylamido]-2,5-Dimethyl-1,4-Benzochinon. Sm. 227° (*B.* 37, 2388 *C.* 1904 [2] 308).
- 55) Amid d. 2-Oxyphenylamidoessigäthyläthersäure. Sm. 161—162° (*Bl.* [3] 29, 967 *C.* 1903 [2] 1118).
- 56) Amid d. 4-Oxyphenylamidoessigäthyläthersäure. Sm. 145—146° (*Bl.* [3] 29, 967 *C.* 1903 [2] 1118).

- $C_{10}H_{11}O_2N_4$ 10) Diamid d. 1,3-Phenylendi[Amidoessigsäure]. Sm. 196—197° (*Bl.* [3] 29, 967 *C.* 1903 [2] 1118).
- 11) Diamid d. 1,4-Phenylendi[Amidoessigsäure]. Sm. 250—252° u. Zers. (*Bl.* [3] 29, 967 *C.* 1903 [2] 1118).
- $C_{10}H_{11}O_2Br_4$ 1) Lakton d. $\alpha\beta\gamma\eta$ -Tetrabrom- δ -Oxyheptan- δ -[Aethyl- β -Carbonsäure]. Sm. 125—127° (*C.* 1904 [1] 1330).
- $C_{10}H_{14}O_2S_2$ 1) 2,5-Diäthyläther d. 2,5-Dimerkapto-1,4-Dioxybenzol. Sm. 49 bis 50° (*A.* 336, 158 *C.* 1904 [2] 1300).
- $C_{10}H_{14}O_3N_2$ 7) Dimethyläther d. 2-Acetylamido-5-Amido-1,4-Dioxybenzol (D. R. P. 139286 *C.* 1903 [1] 679).
- 8) Aethylester d. 3-Acetyl-1,4-Dimethylpyrazol-5-Carbonsäure. Sm. 80—81° (*B.* 36, 1130 *C.* 1903 [1] 1138).
- $C_{10}H_{14}O_3S_2$ *25) 1,2,3,5-Tetramethylbenzol-4-Sulfonsäure. Sm. 79—80° (*B.* 37, 1717 *C.* 1904 [1] 1489).
- $C_{10}H_{14}O_4N_2$ 5) α -Cyan- α -Oxyessig-[β -Cyan- α -Aethoxylbutyl]äthersäure. Sm. 153° u. Zers. (*C.* 1904 [1] 159).
- 6) Aethylester d. α -Cyan- α -Oxyessig-[β -Cyan- α -Aethoxyläthyl]äthersäure. Sm. 53°; Sd. 235°₂₀ u. Zers. (*C.* 1904 [1] 159).
- 7) Monoäthylester d. 3,6-Dimethyl-4,5-Dihydro-1,2-Diazin-4,5-Dicarbonsäure. Sm. 205—207° K (*B.* 35, 4313 *C.* 1903 [1] 336; *B.* 36, 502 *C.* 1903 [1] 654).
- 8) Verbindung (aus 1-Nitrocamphen). Sm. 123° (*Soc.* 85, 327 *C.* 1904 [1] 807, 1440).
- $C_{10}H_{14}O_4N_4$ 3) 3,5-Dinitro-2-Dimethylamido-4-Methylamido-1-Methylbenzol. Sm. 115° (*J. pr.* [2] 67, 565 *C.* 1903 [2] 241).
- 4) Dihydrazid d. 3,4-Dioxybenzoldimethyläther-1,2-Dicarbonsäure. Sm. 215° (*M.* 24, 379 *C.* 1903 [2] 493).
- $C_{10}H_{14}O_4Br_4$ 4) Tetrabromid d. Säure $C_{10}H_4O_4$. Sm. 90° (*C.* 1901 [1] 53). — *II, 1026.
- $C_{10}H_{14}O_4S_4$ *7) 3-Oxy-4-Isopropyl-1-Methylbenzol-6-Sulfonsäure. Salze siehe (*A.* 328, 141 *C.* 1903 [2] 991).
- 17) 4-Oxy-1-Aethylbenzoläthyläther- β -Sulfonsäure. Sm. 82—84° (*B.* 36, 3594 *C.* 1903 [2] 1366).
- $C_{10}H_{14}O_4S_2$ 3) α -Aethylsulfon- α -Phenylsulfonäthan. Sm. 97—99° (*B.* 36, 303 *C.* 1903 [1] 500).
- 4) α -Aethylsulfon- α -Benzylsulfonmethan. Sm. 172—174° (*B.* 36, 300 *C.* 1903 [1] 500).
- $C_{10}H_{14}O_5N_2$ 4) Verbindung (aus 1-Nitrocamphen). Sm. 85—86°. NH_4 , Cu, Ag (*Soc.* 85, 330 *C.* 1904 [1] 807, 1440).
- $C_{10}H_{14}O_8S_4$ 1) Tetramethylester d. Dimethylsulfid- $\alpha\alpha\beta\beta$ -Tetracarbonsäure. Sm. 122° (*B.* 36, 3724 *C.* 1903 [2] 1416).
- $C_{10}H_{14}O_8S_3$ 1) Tetramethylester d. Trithiodimalonsäure. Sm. 167° (*B.* 36, 3722 *C.* 1903 [2] 1416).
- $C_{10}H_{14}N_2S_4$ 13) Methyläther d. α -Imido- α -[Methyl-4-Methylphenyl]amido- α -Merkaptomethan. Sm. 190—191° (*Am.* 30, 175 *C.* 1903 [2] 872).
- $C_{10}H_{15}ON$ *30) Pseudoephedrin (Isoephedrin). Sm. 117°. HCl, (HCl, $AlCl_3$) (*Ar.* 242, 380 *C.* 1904 [2] 508).
- *40) Ephedrin (*Ar.* 242, 380 *C.* 1904 [2] 508).
- $C_{10}H_{15}ON_3$ 8) α -Amido- β -Aethyl- α -Benzylharnstoff. Fl. (*B.* 37, 2325 *C.* 1904 [2] 312).
- 9) β -Nitroso- $\alpha\beta$ -Diäthyl- α -Phenylhydrazin. Fl. (*C.* 1903 [1] 1128; *B.* 35, 4187 *C.* 1903 [1] 143).
- 10) Amid d. 4-Dimethylamidophenylamidoessigsäure. Sm. 159—160° (*Bl.* [3] 29, 968 *C.* 1903 [2] 1118).
- $C_{10}H_{15}OCl$ *2) α -Chlorcampher. Sm. 92° (*C.* 1903 [2] 373).
- 11) Chlorid d. Pulegensäure (*A.* 327, 128 *C.* 1903 [1] 1412).
- $C_{10}H_{15}OBr$ *2) o-Bromcampher. Sm. 76° (*B.* 36, 668 *C.* 1903 [1] 771).
- 11) l- α -Bromcampher. Sm. 76° (*Soc.* 79, 80). — *III, 371.
- 12) Bromdihydroumbellulon. Sm. 58—59° (*Soc.* 85, 644 *C.* 1904 [1] 1608; *C.* 1904 [2] 330).
- $C_{10}H_{15}OJ$ *1) o-Jodcampher. Sm. 42—43° (*B.* 37, 2168, 2182 *C.* 1904 [2] 222).
- $C_{10}H_{15}O_2N$ *4) Nitro- α -Phellandren. Sd. 130—134°₁₁ (*A.* 336, 30 *C.* 1904 [2] 1468).
- *5) Nitropinen (*A.* 336, 7 *C.* 1904 [2] 1466).
- *6) Oximidocampher. 2 + 3 $HgNO_3$, 2 + $AgNO_3$ (*C. r.* 136, 1223 *C.* 1903 [2] 116; *C.* 1903 [2] 878; *Soc.* 85, 902 *C.* 1904 [2] 596).

- $C_{10}H_{15}O_2N$ *21) Imid d. Camphersäure. Sm. 248—249° (*Ph. Ch.* 42, 703 *C.* 1903 [1] 757; *A.* 328, 342 *C.* 1903 [2] 1124).
- 32) Nitro- β -Phellandren. Fl. (*G.* 16, 227; *A.* 336, 44 *C.* 1904 [2] 1468). — III, 530.
- 33) isom. Oximidocampher. Sm. 114° (*Soc.* 83, 534 *C.* 1903 [1] 1136, 1353; *Soc.* 85, 904 *C.* 1904 [2] 597).
- 34) Aethylester d. 1,2,5-Trimethylpyrrol-3-Carbonsäure. Sm. 48°; Sd. 282—283°₇₄₆ (*C.* 1903 [2] 1281).
- $C_{10}H_{15}O_2Br$ 35) Imid d. i-Camphersäure. Sm. 249° (*Am.* 28, 484 *C.* 1903 [1] 329).
- 9) 2,6-Diketo-4- α -Bromisopropyl-1-Methylhexahydrobenzol. Sm. 135° (*A.* 330, 271 *C.* 1904 [1] 948).
- $C_{10}H_{15}O_3J$ 1) δ -Jod- α' -Heptadien- δ -[Aethyl- β -Carbonsäure] (γ -Jod- $\gamma\gamma$ -Diallylbutter-säure). Fl. (*C.* 1904 [1] 1330).
- $C_{10}H_{15}O_3N$ 28) tert. Nitrofenchon. Sm. 96,5—97,5° (*C.* 1904 [1] 282).
- 29) sec. Nitrofenchon. Sm. 86—87° (*C.* 1904 [1] 282).
- 30) Nitropulegon. Sm. 123° (*C.* 1904 [1] 282).
- 31) 5-Oxy-5-Cyan-1,3-Dimethylhexahydrobenzol-1-Carbonsäure + 2H₂O? Sm. 202,5° (*B.* 37, 4063 *C.* 1904 [2] 1650).
- $C_{10}H_{15}O_3N_3$ 32) Amid d. i-Camphersäure. Sm. 196° (*Am.* 28, 482 *C.* 1903 [1] 329).
- 4) 1-Amid d. 3,6-Dimethyl-1,4-Dihydro-1,2-Diazin-1,5-Dicarbonsäure-5-Aethylester. Sm. 230° (*A.* 331, 315 *C.* 1904 [2] 46).
- 5) Verbindung (aus Anemonin). Sm. 68—69° (*Ar.* 230, 204). — *III, 455.
- $C_{10}H_{15}O_3N_5$ C 47,4 — H 5,9 — O 19,0 — N 27,7 — M. G. 253.
- 1) Aethylester d. 3-[α -Semicarbazonäthyl]-4-Methylpyrazol-5-Carbon-säure. Sm. 220—221° (*B.* 36, 1130 *C.* 1903 [1] 1138).
- $C_{10}H_{15}O_4P$ 5) α -Oxyisopropyl- α -Oxybenzylunterphosphorige Säure. Ag (*C.* 1904 [2] 1709).
- 6) Säure (aus Acetaldehyd). Sm. 192° (*C. r.* 138, 1708 *C.* 1904 [2] 423).
- 7) Säure (aus Aceton). Sm. 182° (*C. r.* 138, 1708 *C.* 1904 [2] 422).
- $C_{10}H_{15}O_5N_5$ C 42,1 — H 5,2 — O 28,1 — N 24,6 — M. G. 285.
- 1) Aethylester d. Diazoacetyl[Amidoacetyl]amidoessigsäure. Sm. 159° u. Zers. (*B.* 37, 1295 *C.* 1904 [1] 1336).
- $C_{10}H_{15}O_6N_3$ C 43,9 — H 5,5 — O 35,2 — N 15,4 — M. G. 273.
- 1) 3,4,6-Trinitro-5-Methyl-2-Isopropyl-1,2,3,4-Tetrahydrobenzol. Sm. 136—137° (*A.* 313, 351; *A.* 336, 21 *C.* 1904 [2] 1467).
- 2) Nitrosat d. 1-Nitrocampfen. Sm. 217° u. Zers. (*Soc.* 85, 326 *C.* 1904 [1] 807, 1440).
- $C_{10}H_{15}O_7N$ 2) Triäthylester d. Stickstoffdicarbonsäureketocarbonsäure (Dicarboxäthylloxamäthan). Sd. 170,5—171,5°₁₁ (*B.* 37, 3679 *C.* 1904 [2] 1495).
- $C_{10}H_{16}ON_4$ 3) Nitril d. 5-Semicarbazon-1,3-Dimethylhexahydrobenzol-1-Carbon-säure. Sm. 200—201° (*B.* 37, 4062 *C.* 1904 [2] 1650).
- $C_{10}H_{16}OBr_2$ 10) Dibromid d. Dihydrocarboxyd. Sm. 55° (*B.* 36, 766 *C.* 1903 [1] 836).
- 11) Menthenondibromid. Sm. 36° (*C.* 1903 [2] 1373).
- $C_{10}H_{16}OS$ 1) β -Merkaptocampher. Sm. 66°. Ph, HgCl (*Soc.* 83, 479 *C.* 1903 [1] 923, 1137).
- $C_{10}H_{16}O_2N_2$ *11) β -[3,5-Dioximido-4-Methylhexahydrophenyl]propen. Sm. 188° (*A.* 330, 274 *C.* 1904 [1] 948).
- 14) α -d-Campherdioxim. Sm. 201° (181—182° u. Zers.) (*B.* 26, 243; *G.* 30 [2] 297; *Soc.* 83, 519 *C.* 1903 [1] 1136, 1352). — III, 500; *III, 367.
- 15) β -d-Campherdioxim. Sm. 248° (220—221° u. Zers.) (*B.* 26, 243; *G.* 30 [2] 298; *Soc.* 83, 519 *C.* 1903 [1] 1136, 1352). — III, 500; *III, 367.
- 16) γ -d-Campherdioxim. Sm. 138° (131—132°) (*B.* 26, 244; *Soc.* 83, 519 *C.* 1903 [1] 1136, 1352; *Soc.* 85, 913 *C.* 1904 [2] 598). — III, 500; *III, 367.
- 17) δ -d-Campherdioxim. Sm. 199° (*Soc.* 83, 520 *C.* 1903 [1] 1136, 1353). — *III, 367.
- 18) r-Camphenylnitramin (r-Nitrocampherimin). Sm. 28° (*C. r.* 136, 1143 *C.* 1903 [1] 1410).
- 19) Pernitrosoderivat (aus Thujonoxim). Fl. (*R. A. L.* [5] 9 [1] 211). — *III, 385.
- 20) 2,4,6-Triketo-5,5-Dipropylhexahydro-1,3-Diazin (Dipropylmalonylharnstoff) (*C.* 1903 [1] 1155).
- 21) Skatosin. 3HCl (*C.* 1903 [1] 411).

- $C_{10}H_{16}O_2N_2$ 22) Methylester d. 3,4-Dimethyl-5-Propylisopyrazol-4-Carbonsäure. Sd. 156—158°₁₄ (Bl. [3] 27, 1104 C. 1903 [1] 227).
- 23) Verbindung (aus d. Verbindung $C_{24}H_{24}O_4N_2$). Sm. noch nicht bei 260° (Soc. 85, 911 C. 1904 [2] 598).
- $C_{10}H_{16}O_2N_4$ 2) 5-Nitro-3-Amido-2-Dimethylamido-4-Methylamido-1-Methylbenzol. Sm. 61,5—62° (J. pr. [2] 67, 568 C. 1903 [2] 241).
- $C_{10}H_{16}O_2N_8$ C 42,8 — H 5,7 — O 11,4 — N 40,0 — M. G. 280.
- 1) Porphyrindin + 2H₂O. Sm. 190° u. Zers. wasserfrei (B. 36, 1301 C. 1903 [1] 1256).
- $C_{10}H_{16}O_2Cl_2$ 2) Chlorid d. β -Methylheptan- γ -Dicarbonsäure. Sd. 247—248°₂₅ (C. r. 136, 458 C. 1903 [1] 696).
- $C_{10}H_{16}O_2Br_2$ 5) Methylester d. Dibromdihydro- β -Campholytsäure. Fl. (Soc. 83, 860 C. 1903 [2] 573).
- $C_{10}H_{16}O_2Br_4$ 1) $\alpha\beta\zeta\eta$ -Tetrabromheptan- δ -[Aethyl- β -Carbonsäure] (C. 1904 [1] 1330).
- $C_{10}H_{16}O_3N_2$ *3) d-Phellandrennitrit (B. 36, 1754 C. 1903 [2] 118).
- 4) α -Nitrit d. d- α -Phellandren. Sm. 112—113° (A. 336, 15 C. 1904 [2] 1466).
- 10) β -Nitrit d. d- α -Phellandren. Sm. 105° (A. 336, 15 C. 1904 [2] 1467).
- 11) α -Nitrit d. l- α -Phellandren. Sm. 112—113° (A. 336, 15 C. 1904 [2] 1466).
- 12) β -Nitrit d. l- α -Phellandren. Sm. 105° (A. 336, 15 C. 1904 [2] 1467).
- 13) α -Nitrit d. β -Phellandren. Sm. 102° (G. 16, 226; A. 336, 44 C. 1904 [2] 1468). — III, 530.
- 14) β -Nitrit d. β -Phellandren. Sm. 97—98° (G. 16, 226; A. 336, 44 C. 1904 [2] 1468). — III, 530.
- 15) Pulegonnitrosit. Sm. 68—69° (C. r. 137, 494 C. 1903 [2] 1003).
- 16) 2,4,6-Triketo-5,5-Dipropylhexahydro-1,3-Diazin. Sm. 145° (146°). Na (D.R.P. 146496 C. 1903 [2] 1483; D.R.P. 146949 C. 1904 [1] 68; A. 335, 344 C. 1904 [2] 1381).
- $C_{10}H_{16}O_4Br_2$ *7) Diäthylester d. $\alpha\delta$ -Dibrombutan- $\alpha\alpha$ -Dicarbonsäure. Sd. 176 bis 177,5°₁₃ (A. 326, 100 C. 1903 [1] 842).
- $C_{10}H_{16}O_4S$ 4) Carvonhydrosulfonsäure. Na, Ba (Bl. [3] 23, 280; B. 37, 4042 C. 1904 [2] 1647).
- 5) l-Campfersulfonsäure. NH₄ (Soc. 79, 80). — *III, 371.
- $C_{10}H_{16}O_5N_2$ 2) Verbindung (aus Pulegon). Sm. 84—86° (C. 1904 [1] 282).
- 3) isom. Verbindung (aus Pulegon). Sm. 64—72° (C. 1904 [1] 282).
- 4) isom. Verbindung (aus Pulegon). Sm. 96—98° (C. 1904 [1] 282).
- $C_{10}H_{16}O_5S$ *2) Sulfocamphelecarbonsäure. NH₄, K, K₂, Ca, Ba, Mg (C. 1903 [2] 38; Soc. 83, 1102 C. 1903 [2] 793).
- $C_{10}H_{16}NCl$ 6) β -Chlorcampherimin. Zers. bei 200° (C. 1903 [2] 373).
- $C_{10}H_{18}NJ_9$ 1) Dimethyläthylphenylammoniumnonajodid. Sm. 29° (J. pr. [2] 67, 351 C. 1903 [1] 1297).
- $C_{10}H_{17}ON$ *13) Oxim d. d-Campher. + 2HgNO₃, 2 + AgNO₃ (C. 1903 [2] 878).
- *21) r-4-Oximido-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 92—93° (A. 336, 38 C. 1904 [2] 1468).
- *46) Trimethyl-4-Methylphenylammoniumhydroxyd. Methylsulfat (A. 327, 111 C. 1903 [1] 1213).
- *50) Amid d. r- α -Campholensäure. Sm. 122° (C. r. 138, 696 C. 1904 [1] 1087).
- *55) Amid d. Pulegensäure. Sm. 121—122° (A. 327, 128 C. 1903 [1] 1412).
- *68) d-4-Oximido-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 75° (A. 336, 38 C. 1904 [2] 1468).
- *69) Oximidomethen. Sm. 62—62,5° (C. 1904 [1] 1347).
- 78) Trimethyl-2-Methylphenylammoniumhydroxyd. Methylsulfat (A. 327, 111 C. 1903 [1] 1213).
- 79) 3-Oximido-5-Isopropyl-2-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 63—66° (B. 28, 1588). — *III, 385.
- 80) l-4-Oximido-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 75—76° (A. 336, 37 C. 1904 [2] 1468).
- 81) α -Anhydropulegonhydroxylamin. Sd. 91°. Pikrat (B. 37, 951 C. 1904 [1] 1087; B. 37, 2282 C. 1904 [2] 441; B. 37, 1341 C. 1904 [1] 1350; B. 37, 2428 C. 1904 [2] 442).

- C₁₀H₁₇ON** 82) Oxim d. Calaminthion. Sm. 88—89° HCl (*C. r.* 136, 388 *C.* 1903 [1] 714).
 83) Oxim d. synth. Pulegon. Sd. 145°₁₅ (*A.* 300, 270). — *III, 384.
 84) Oxim d. Keton C₁₀H₁₆O. Sm. 96—98° (*C.* 1898 [1] 572). — *III, 386.
 85) Oxim d. Keton C₁₀H₁₆O (aus Terpinennitrosit). Sm. 83—84° (*C.* 1898 [1] 572). — *III, 386.
 86) 5-Keto-1, 2, 2-Trimethyl-4-Isopropylidentetrahydropyrrol. Sd. 127 bis 128°₁₅ (*B.* 36, 3370 *C.* 1903 [2] 1187).
 87) Amid d. 1, 1, 3-Trimethyl-1, 2, 3, 4-Tetrahydrobenzol-5-Carbonsäure? Nadeln; Sd. 168°₁₁ (*D.R.P.* 141 699 *C.* 1903 [1] 1245).
- C₁₀H₁₇ON₃** *11) Semicarbazon d. Pulegenon. Sm. 183—184° (*A.* 327, 134 *C.* 1903 [1] 1412).
 14) α -Semicarbazon- β -Nonin. Sm. 78—79° (*C. r.* 138, 1341 *C.* 1904 [2] 187).
 15) 2-Semicarbazon-1-Methyl-3-Isopropyliden-R-Pentamethylen. Sm. 197° (*A.* 331, 326 *C.* 1904 [1] 1567).
 16) Semicarbazon d. Pinophoron. Sm. 157—158° (*B.* 37, 240 *C.* 1904 [1] 726).
- C₁₀H₁₇OCl** 5) Dihydrocarvonhydrochlorid. Sd. 155,5—157°₁₅ (*J. pr.* [2] 56, 256). — *III, 375.
- C₁₀H₁₇OBr** 1) 3-Keto-4-[α -Bromisopropyl]-1-Methylhexahydrobenzol. Sm. 40,5° (*A.* 262, 21; *B.* 32, 3368). — *III, 383.
 2) α -Brommenthon. Sd. 102—108°₁₅₋₁₆ (*B.* 37, 2078 *C.* 1904 [2] 18).
 3) Pulegonhydrobromid. Sm. 40—41° (*C.* 1904 [2] 1045).
- C₁₀H₁₇O₂N** 35) sec. i-Nitrodihydrocamphen. Sm. 125—129° (*C.* 1903 [1] 512).
 36) β -Oximido- β -Oxy- β ''-Dimethyl- β ''-Oktadien (Geranylhydroxamsäure). Fl. Cu (*G.* 34 [2] 73 *C.* 1904 [2] 734).
 37) α -Cyanoktan- α -Carbonsäure. Sm. 141° (*C.* 1904 [1] 880).
 C 56,9 — H 8,0 — O 15,2 — N 19,9 — M. G. 211.
 1) 2-Imido-4,6-Diketo-5,5-Dipropylhexahydro-1,3-Diazin. HNO₃ (*A.* 335, 353 *C.* 1904 [2] 1381).
- C₁₀H₁₇O₂Cl** 7) r-Pinolglykolchlorhydrin. Sm. 105—107° (*B.* 29, 888). — *III, 392.
 8) Aethylester d. β -Chlor- α -Hepten- α -Carbonsäure. Sd. 123—128°₁₈ (*Bl.* [3] 29, 677 *C.* 1903 [2] 488).
- C₁₀H₁₇O₃N** *3) α -Campheraminsäure. NH₃ (*Am.* 32, 287 *C.* 1904 [2] 1222).
 *4) β -Campheraminsäure. Na (*Am.* 32, 287 *C.* 1904 [2] 1222).
 2) i-Campheraminsäure. Sm. 198° (*Am.* 28, 485 *C.* 1903 [1] 329).
 33) Methyl ester d. r-Egonin. Sm. 125—126° (*A.* 326, 68 *C.* 1903 [1] 841).
- C₁₀H₁₇O₃N₃** 6) 5-Semicarbazon-1,3-Dimethylhexahydrobenzol-1-Carbonsäure. Sm. 203—205° (*B.* 37, 4072 *C.* 1904 [2] 1652).
- C₁₀H₁₇O₃P** 3) Verbindung (aus Terpininöl) (*C.* 1904 [2] 654).
- C₁₀H₁₇O₄N₈** 2) 2, 5-Diketo-1, 4, 4-Trimethyltetrahydroimidazol-3- α -Amidoisobuttersäure. Sm. 169° (*C.* 1904 [2] 1029).
- C₁₀H₁₇O₄Cl₅** 1) Di[β β -Dichlor- α -Aethoxyäthyläther] d. β -Chlor- α -Dioxyäthan. Sm. 82—84° (*G.* 33 [2] 407 *C.* 1904 [1] 922).
- C₁₀H₁₇O₄Br** *5) Diäthylester d. δ -Brombutan- α -Dicarbonsäure. Sd. 153—154° (*A.* 326, 99 *C.* 1903 [1] 842).
- C₁₀H₁₇O₆N** 3) Verbindung (aus Dimethylamin u. 3,4,5-Trioxylbenzol-1-Carbonsäure-äthylester). Sm. 79° (*D.R.P.* 141 101 *C.* 1903 [1] 1058).
- C₁₀H₁₇O₅N₃** *1) α -Antipepton (α -Trypsinfibrinpepton) (*H.* 38, 258, 269 *C.* 1903 [2] 210).
 2) δ -Semicarbazonheptan- α -Dicarbonsäure. Sm. 176—177° (*B.* 37, 3820 *C.* 1904 [2] 1606).
 3) Diäthylester d. β -Semicarbazonpropan- α - γ -Dicarbonsäure. Sm. 94—95° (*Bl.* [3] 31, 442 *C.* 1904 [1] 1486).
 3) Phaseolunatin. Sm. 141° (*C.* 1903 [2] 1334).
 4) Triäthylester d. Amidoessigsäure-N-Dicarbonsäure. Sm. 36,5°; Sd. 152—153°₁₀ (*B.* 37, 3677 *C.* 1904 [2] 1495).
- C₁₀H₁₇O₆N₃** C 43,6 — H 6,2 — O 34,9 — N 15,3 — M. G. 275.
 1) α -Carbäthoxyamidopropionylamidoacetyl-amidoessigsäure. Sm. 161 bis 162° (*B.* 36, 2988 *C.* 1903 [2] 1112).
 2) Aethylester d. Oxyacetylidi[Amidoacetyl]amidoessigsäure (*B.* 37, 1297 *C.* 1904 [1] 1336).
- C₁₀H₁₇O₆N₅** C 39,6 — H 5,6 — O 31,7 — N 23,1 — M. G. 303.
 1) Tetra[Amidoacetyl]amidoessigsäure (Tetraglycylglycin). Zers. oberh. 246° (*B.* 37, 2507 *C.* 1904 [2] 427).

- $C_{10}H_{17}O_7N$ 2) Nitrat d. 1- α -Oxyäthan- α - β -Dicarbonsäuredipropylester. Fl. (B. 35, 4365 C. 1903 [1] 321).
 $C_{10}H_{17}O_8N$ C 43,0 — H 6,1 — O 45,9 — N 5,0 — M. G. 279.
 1) Dipropylester d. Nitroweinsäure. Fl. (B. 35, 4367 C. 1903 [1] 321; B. 36, 780 C. 1903 [1] 826).
 $C_{10}H_{17}N_2Br$ 2) Bromäthylat d. s-Aethylphenylhydrazin (C. r. 137, 330 C. 1903 [2] 716; Bl. [3] 29, 969 C. 1903 [2] 1115).
 $C_{10}H_{17}N_2J$ *2) Jodäthylat d. s-Aethylphenylhydrazin (C. r. 137, 330 C. 1903 [2] 716; Bl. [3] 29, 969 C. 1903 [2] 1115).
 $C_{10}H_{18}ON_2$ 18) Oxim d. α -Anhydropulegonhydroxylamin. Sm. 181° (B. 37, 953 C. 1904 [1] 1087).
 19) 5-Keto-4-Aethyl-3-Amyl-4,5-Dihidropyrazol. Sm. 138—139° (Bl. [3] 31, 596 C. 1904 [2] 26).
 20) 2,5-Diisobutyl-1,3,4-Oxdiazol. Sd. 232° (J. pr. [2] 69, 483 C. 1904 [2] 537).
 21) Amid d. α -Cyanoktan- α -Carbonsäure. Sm. 137,5° (C. 1903 [2] 193).
 $C_{10}H_{18}O_2N_2$ *8) d- β -[3-Oxamido-5-Oximido-4-Methylhexahydrophenyl]propen + $\frac{1}{2}H_2O$. Sm. 106° (A. 330, 268 C. 1904 [1] 947).
 16) l- β -[3-Oxamido-5-Oximido-4-Methylhexahydrophenyl]propen (l-Oxamidocarovoxim). Sm. 109°. 2HCl (A. 330, 273 C. 1904 [1] 948).
 17) β -[2-Hydroxylnitrosamido-4-Methylhexahydrophenyl]propen. Sm. 52° (B. 36, 486 C. 1903 [1] 637).
 18) Oxim d. Hydroxylamidodihydroumbellulon (Soc. 85, 636 C. 1904 [1] 1607 C. 1904 [2] 333).
 19) Eucarvonoxaminoxim. Sm. 141—142°. Oxalat (A. 330, 275 C. 1904 [1] 948).
 $C_{10}H_{18}O_3N_3$ C 42,6 — H 6,4 — O 11,3 — N 39,7 — M. G. 282.
 1) Verbindung (aus Porphyrin). Sm. 280° u. Zers. (B. 36, 1299 C. 1903 [1] 1256).
 $C_{10}H_{18}O_3N_2$ 7) Methylmonamid d. l-Methyltetrahydopyrrol-2,2-Dicarbonsäuremonoäthylester. Sm. 199,5—200° (A. 326, 115 C. 1903 [1] 843).
 $C_{10}H_{18}O_4N_2$ 12) Monoüreid d. Heptan- $\delta\delta$ -Dicarbonsäure. Sm. 147° (D.R.P. 144431 C. 1903 [2] 813; A. 335, 363 C. 1904 [2] 1382).
 $C_{10}H_{18}O_4N_3$ C 41,9 — H 6,3 — O 22,4 — N 29,4 — M. G. 286.
 1) Isobutylester d. $\alpha\beta$ -Disemicarbazonbuttersäure. Sm. 254—255° (C. r. 138, 1222 C. 1904 [2] 27).
 $C_{10}H_{18}O_5S$ 5) l-Borneolschwefelsäure. K (C. r. 125, 111). — *III, 338.
 $C_{10}H_{18}O_5N_2$ 2) Diäthylester d. α -Carboxylamidoacetylamidopropionsäure (Carbäthoxylglycylalaninäthylester). Sm. 65,5—66,5° (B. 36, 2111 C. 1903 [2] 345).
 $C_{10}H_{18}O_6N_4$ C 43,8 — H 6,6 — O 29,2 — N 20,4 — M. G. 274.
 1) Äthylester d. Tri[Amidoacetyl]amidoessigsäure. Zers. bei 270°. HCl, (2HCl, PtCl₄ + 2H₂O), Pikrat (B. 37, 1287 C. 1904 [1] 1336; B. 37, 2504 C. 1904 [2] 426).
 $C_{10}H_{18}O_5Cl_3$ 1) Verbindung (aus Dichloressigsäurealdehyd u. 2 Molec. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthanmonoäthyläther). Sd. 110—111° (G. 33 [2] 399 C. 1904 [1] 921).
 $C_{10}H_{18}NCl$ 5) Amidohydrochlorpinen. (2HCl, PtCl₄) (C. 1903 [1] 513).
 6) Chlorlupinid. (HCl, AuCl₃) (A. 235, 278). — *III, 664.
 $C_{10}H_{18}N_2S$ 1) 2,5-Diisobutyl-1,3,4-Thiodiazol. Sd. 130—132°₂₅ (J. pr. [2] 69, 484 C. 1904 [2] 537).
 $C_{10}H_{19}ON$ *2) β -[2-Hydroxylamido-4-Methylhexahydrophenyl]propen. Sd. 122 bis 123°₁₄. (2HCl, PtCl₄), Oxalat (B. 36, 485 C. 1903 [1] 637).
 *4) 3-Keto-4-[α -Amidoisopropyl]-1-Methylhexahydrobenzol (Pulegonamin). Sd. 99—100°₁₀ (B. 37, 2287 C. 1904 [2] 442).
 *12) α -Isooxim d. l-Menthon. Sm. 88—89° (C. 1904 [2] 1045).
 *39) Lupinid. Sm. 68—69° (Ar. 242, 411 C. 1904 [2] 782).
 42) Base (aus α -Anhydropulegonhydroxylamin). Sd. 106°₁₁ (B. 37, 956 C. 1904 [1] 1087).
 43) Oxim d. l-P-Menthon. Sm. 88—89° (C. 1904 [2] 1045).
 44) Benzoeat d. l-Menthonoxim. Sm. 54° (A. 332, 351 C. 1904 [2] 653).
 45) Amid d. r- α -Dihydrocampholensäure. Sm. 126° (C. r. 136, 1143 C. 1903 [1] 1410).

- $C_{10}H_{19}ON_3$ *9) Semicarbazon d. Dihydropulegenon. Sm. 193—195° (198—199°) (A. 327, 136 C. 1903 [1] 1412).
- 10) 2-Semicarbazon-1-Methyl-3-Isopropyl-R-Pentamethylen. Sm. 196 bis 197° (B. 37, 238 C. 1904 [1] 726).
- $C_{10}H_{19}O_2N$ 11) Pinolonsemicarbazon. Sm. 158° (B. 28, 2710). — *III, 382.
- 19) 4-[α -Nitroisopropyl]-1-Methylhexahydrobenzol. Sd. 135—137° (C. 1904 [1] 1517).
- 20) β -Oximido- β -Oxy- β -Dimethyl- β -Okten (Citronellalhydroxamsäure). Cu (G. 34 [2] 72 C. 1904 [2] 734).
- 21) 1,2,2,5,5-Pentamethyltetrahydropyrrol-3-Carbonsäure + $2\frac{1}{2}H_2O$. Sm. 129°. HCl, (2HCl, PtCl₄) (B. 36, 3360 C. 1903 [2] 1185).
- 22) Methylester d. 2,2,5,5-Tetramethyltetrahydropyrrol-3-Carbonsäure. Sd. 206°₇₆₀ (B. 36, 3359 C. 1903 [2] 1185).
- 23) Amid d. cis-5-Oxy-1,1,3-Trimethylhexahydrobenzol-5-Carbonsäure. Sm. 128—129°; Sd. 190°₁₅ (D.R.P. 141699 C. 1903 [1] 1245).
- 24) Amid d. trans-5-Oxy-1,1,3-Trimethylhexahydrobenzol-5-Carbonsäure. Sm. 196°; Sd. 210°₃₈ (D.R.P. 141699 C. 1903 [1] 1245).
- 25) Imid d. Valeriansäure. Sm. 100° (C. r. 137, 130 C. 1903 [2] 552).
- 26) Imid d. Isovaleriansäure. Sm. 94° (C. r. 137, 129 C. 1903 [2] 552).
- 27) Verbindung (aus Hydroxylamin u. Dihydrocarboxyd). Sm. 111—112° (113—114°). HCl (A. 279, 386; B. 36, 767 C. 1903 [1] 836). — III, 505.
- 28) Verbindung (aus Hydroxylamin u. Dihydrocarboxyd). Sm. 164—165° (A. 279, 386; B. 36, 765 C. 1903 [1] 836). — III, 505.
- $C_{10}H_{19}O_2N_3$ 2) 2-Oxy-4-[α -Semicarbazonäthyl]-1-Methylhexahydrobenzol. Sm. 206—207° (B. 36, 767 C. 1903 [1] 836).
- $C_{10}H_{19}O_3N$ 14) 2-Oximido-4-[$\alpha\beta$ -Dioxyisopropyl]-1-Methylhexahydrobenzol. Sm. 202° (B. 28, 2705). — *III, 375.
- 15) α -Oximido- β -Methyloktan- α -Carbonsäure. Sm. 89—90° (Bl. [3] 31, 1075 C. 1904 [2] 1458).
- $C_{10}H_{19}O_3N_3$ *7) γ -Semicarbazon- β -Methylheptan- ζ -Carbonsäure. Sm. 164° (A. 327, 141 C. 1903 [1] 1412).
- 8) ζ -Semicarbazon- β -Methylheptan- γ -Carbonsäure. Sm. 140° (B. 37, 238 C. 1904 [1] 726).
- 9) γ -Semicarbazon- β -Methylheptan- ζ -Carbonsäure. Sm. 167—168° (B. 37, 238 C. 1904 [1] 726).
- 10) Semicarbazon d. Säure $C_9H_{16}O_3$ (aus Dihydropulegenon). Sm. 140 bis 143° (A. 327, 138 C. 1903 [1] 1412).
- 11) Aethylester d. ε -Semicarbazon- β -Methylpentan- ε -Carbonsäure. Sm. 162—163° (Bl. [3] 31, 1152 C. 1904 [2] 1707).
- 12) Isobutylester d. α -Semicarbazonbutan- α -Carbonsäure. Sm. 137 bis 138° (Bl. [3] 31, 1150 C. 1904 [2] 1707).
- 13) Capronat d. β -Semicarbazon- α -Oxypropan. Sm. 91° (C. r. 138, 1275 C. 1904 [2] 93).
- $C_{10}H_{19}O_4N_3$ 3) α -Amidoisocapronylamidoacetylamidoessigsäure. Sm. 235° u. Zers. (B. 36, 2990 C. 1903 [2] 1112).
- $C_{10}H_{19}O_5N$ 2) δ -[$\beta\gamma\delta\varepsilon$ -Tetraoxyamyl]imido- β -Ketopentan (Acetylacetonarabinamin). Sm. 160° (C. r. 136, 1081 C. 1903 [1] 1305).
- $C_{10}H_{19}O_5P$ *1) Phosphat d. α -Oxy- β -Methylpropan- β -Carbonsäure + H_2O . Sm. 110 bis 120° (148° wasserfrei). $K_3 + 5H_2O$ (Bl. [3] 31, 157 C. 1904 [1] 868).
- $C_{10}H_{20}ON_2$ 15) r-5-Ureidomethyl-1,1,2-Trimethyl-R-Pentamethylen (r- α -Dihydrocamphenolaminharnstoff). Sm. 112° (C. r. 136, 1143 C. 1903 [1] 1410).
- $C_{10}H_{20}O_2N_2$ *4) Amid d. Oktan- $\alpha\beta$ -Dicarbonsäure (M. 24, 626 C. 1903 [2] 1236).
- 16) $\alpha\alpha$ -Di[Acetylamido]hexan. Sm. 145° (M. 25, 971 C. 1904 [2] 1598).
- 17) $\alpha\beta$ -Di[4-Morpholyl]äthan (Aethylenbismorpholin). Sm. 74°; Sd. 153 bis 154°. 2HCl, (2HCl, PtCl₄), 2(HCl, AuCl₃), Dipikrat, Pikrolonat (B. 35, 4472 C. 1903 [1] 403).
- 18) 3-Nitroso-4,4,6-Trimethyl-2-Isopropyltetrahydro-1,3-Oxazin. Fl. (M. 25, 855 C. 1904 [2] 1240).
- 19) Amid d. β -Methylheptan- $\gamma\zeta$ -Dicarbonsäure. Sm. 242° (C. r. 136, 458 C. 1903 [1] 696).
- $C_{10}H_{20}O_3N_2$ 3) Di[Propylamid] d. l-Aepfelsäure. Sm. 125,5° (Soc. 83, 1325 C. 1904 [1] 82).
- $C_{10}H_{20}NCl$ 5) Chlormethylat d. β -Aethylchinuclidin. 2 + PtCl₄ (B. 37, 3251 C. 1904 [2] 996).

- $C_{10}H_{20}NCl$ 6) Chloräthylat d. d- α -Coniceïn. 2 + $PtCl_4$ (B. 37, 1897 C. 1904 [2] 238).
7) Chloräthylat d. i- α -Coniceïn. 2 + $PtCl_4$ (B. 37, 1899 C. 1904 [2] 238).
- $C_{10}H_{20}NJ$ 6) Jodmethylat d. β -Aethylechinucidin. Sm. 55° (B. 37, 3250 C. 1904 [2] 996).
7) Jodäthylat d. d- α -Coniceïn. Sm. 170—171° (B. 37, 1897 C. 1904 [2] 238).
8) Jodäthylat d. i- α -Coniceïn. Sm. 168—169° (B. 37, 1899 C. 1904 [2] 238).
9) Jodäthylat d. i- ϵ -Coniceïn. Sm. 176—177° (B. 37, 1891 C. 1904 [2] 238).
- $C_{10}H_{20}N_2S$ 2) d-sec. Butylamid d. Hexahydropyridin-1-Thiocarbonsäure. Sm. 114° (Ar. 242, 62 C. 1904 [1] 998).
- $C_{10}H_{21}ON$ *2) 3-Hydroxylamido-1-Methyl-4-Isopropylhexahydrobenzol (B. 36, 486 C. 1903 [1] 637).
19) 3-Oxy-4-[α -Amidoisopropyl]-1-Methylhexahydrobenzol (Tetrahydro- α -Anhydropulegonhydroxylamin). Sd. 134—135°₁₈ (B. 37, 956 C. 1904 [1] 1087; B. 37, 2285 C. 1904 [2] 441).
20) 4,4,6-Trimethyl-2-Isopropyltetrahydro-1,3-Oxazin. Sd. 171—173°₇₄₄. (2HCl, $PtCl_4$), (HCl, $AuCl_3$) (M. 25, 852 C. 1904 [2] 1240).
- $C_{10}H_{21}ON_3$ *2) β -Semicarbazonnonan. Sm. 119—120° (Soc. 81, 1588 C. 1903 [1] 29, 162).
7) δ -Semicarbazonnonan. Sm. 73—74° (Bl. [3] 31, 1158 C. 1904 [2] 1708).
8) β -Semicarbazon- δ -Methyloktan. Sm. 75° (Soc. 81, 1595 C. 1903 [1] 16, 132).
- $C_{10}H_{21}OBr$ 1) Amyläther d. ϵ -Brom- α -Oxypentan. Sd. 130—131°₂₀ (C. r. 138, 1611 C. 1904 [2] 429).
- $C_{10}H_{21}O_2N$ *5) δ -Oxy- γ -Oximidomethyl- β - ζ -Dimethylheptan. Sd. 157°₁₄ (M. 25, 1042 C. 1904 [2] 1599).
10) Nitrit d. α -Oxydekan. Sd. 105—108°₁₂ (C. r. 136, 1564 C. 1903 [2] 339).
11) Diäthylamidoformiat d. γ -Oxypentan. Sd. 206—208° (Bl. [3] 31, 690 C. 1904 [2] 198).
- $C_{10}H_{21}O_3N$ 2) Tropincholin. 2Chlorid + $PtCl_4$, Nitrat (C. 1898 [2] 889; 1899 [1] 119). — *III, 606.
3) Nitrat d. α -Oxydekan. Sd. 127—128°₁₁ (C. r. 136, 1563 C. 1903 [2] 338).
- $C_{10}H_{22}ON_2$ *1) Diisoamylnitrosamin. Sd. 132,4—132,8°_{14,5} (B. 36, 2477 C. 1903 [2] 559).
- $C_{10}H_{22}O_4S$ *2) Diisoamylester d. Schwefelsäure. Sd. 149—151°₁₂ (Am. 30, 221 C. 1903 [2] 937).
- $C_{10}H_{22}NJ$ 10) Jodmethylat d. 2-Methyl-5-Isopropyltetrahydropyrrol. Sm. 242 243° (C. 1903 [2] 1324).
- $C_{10}H_{22}N_2S$ 2) α -[d-sec. Butyl]- β -Isoamylthioharnstoff. Sm. 43—44° (Ar. 242, 61 C. 1904 [1] 998).
- $C_{10}H_{23}ON$ 4) β -Amido- β -Oxy- β - ζ -Dimethyloktan. Sd. 140°₁₅ (Bl. [3] 29, 1049 C. 1903 [2] 1439).
5) α -Dimethylamido- β -Oxy- β - ϵ -Dimethylhexan. Sd. 98°₂₄ (C. r. 138, 767 C. 1904 [1] 1196).
6) Aethylhydroxyd d. 1-Propylhexahydropyridin. d-Bromcampher-sulfonat (Soc. 83, 1142 C. 1903 [2] 1062).
- $C_{10}H_{23}O_4P$ *2) Di[α -Oxyisoamyl]unterphosphorige Säure. Sm. 230° (C. 1904 [2] 1709).
3) Säure (aus Oenanthaldehyd). Sm. 131° (C. r. 138, 1708 C. 1904 [2] 422).
- $C_{10}H_{24}O_4N_2$ C 50,8 — H 10,2 — O 27,1 — N 11,9 — M. G. 236.
1) α - β -Di[β -Oxyäthylamido]äthan. Fl. (2HCl, $PtCl_4$) (B. 35, 4471 C. 1903 [1] 403).
- $C_{10}H_{24}N_2Cl_2$ 1) Di[Chlormethylat] d. 1,4-Diäthylhexahydro-1,4-Diazin. 2 + $PtCl_4$ (B. 36, 145 C. 1903 [1] 526).
- $C_{10}H_{24}N_3J$ *1) Jodmethylat d. 1,3,5-Triäthylhexahydro-1,3,5-Triazin. Sm. 98 bis 99° (A. 334, 219 C. 1904 [2] 899).

- $C_{10}H_4O_2ClBr$ 1) 3-Chlor-4-Brom-1,2-Naphtochinon. Sm. 181,5° (B. 33, 2412). — *III, 382.
- $C_{10}H_4O_2Cl_2Br_2$ 1) 2,3-Dichlor-2,4-Dibrom-1-Keto-2,3-Dihydroinden-6-Carbonsäure. Sm. 205—206° (A. 293, 161). — *II, 984.
- $C_{10}H_4O_2N_2Cl_2$ 1) 1,4-Dichlor-1,4-Dinitro-2,3-Diketo-1,2,3,4-Tetrahydronaphtalin + 2H₂O. Sm. 155° u. Zers. (A. 334, 355 C. 1904 [2] 1054).
- $C_{10}H_4O_2N_2Br_2$ 1) 1,4-Dibrom-1,4-Dinitro-2,3-Diketo-1,2,3,4-Tetrahydronaphtalin + 2H₂O. Sm. 134° (A. 334, 365 C. 1904 [2] 1055).
- $C_{10}H_5ON_2Br$ 2) Anhydrid d. 4-Brom-2-Oxy-1-Diazonaphtalin. Sm. 132—133° u. Zers. (C. 1903 [1] 401).
- $C_{10}H_6ON_2Br_2$ 2) 2,4-Dibrom-1-Diazonaphtalin. Sulfat (C. 1903 [1] 401).
- $C_{10}H_5O_3NBr$ *3) 6-Brom-1-Nitro-2-Oxynaphtalin. Sm. 122—123° (A. 333, 369 C. 1904 [2] 1117).
- 8) 4-Brom-2-Nitro-1-Oxynaphtalin. Sm. 102° (A. 333, 368 C. 1904 [2] 1117).
- $C_{10}H_6O_8N_2S$ *1) 2,4-Dinitro-1-Oxynaphtalin-7-Sulfonsäure. K₂ + 1½H₂O, Na₂ + 3H₂O, Ca + 4H₂O (B. 37, 3476 C. 1904 [2] 1225).
- $C_{10}H_7ON_3Cl$ 1) 1-Chlor-2-Diazonaphtalin. Sulfat (C. 1903 [1] 401).
- $C_{10}H_7O_2NS_2$ 2) 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden]tetrahydrothiazol. Sm. 200° u. Zers. (M. 23, 960 C. 1903 [1] 284).
- $C_{10}H_7O_2N_2Cl$ 4) 5-Chlor-4,6-Diketo-2-Phenyl-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. noch nicht bei 320° (Soc. 83, 379 C. 1903 [1] 1144).
- $C_{10}H_7O_3NS$ 1) 2,4-Diketo-5-[2-Oxybenzyliden]tetrahydrothiazol. Sm. 230° u. Zers. (M. 23, 964 C. 1903 [1] 284).
- $C_{10}H_7O_3ClS$ *1) 1-Chlornaphtalin-2-Sulfonsäure + 3½H₂O. Sm. 130—133° u. Zers. (R. 23, 182 C. 1904 [2] 225).
- $C_{10}H_7O_2N_2Cl_3$ 1) Aethylester d. Trichlordinitrophenylessigsäure. Sm. 87—88° (Am. 31, 383 C. 1904 [1] 1409).
- $C_{10}H_7O_7ClS_2$ *2) 8-Chlor-1-Oxynaphtalin-3,6-Disulfonsäure (D.R.P. 147852 C. 1904 [1] 133).
- $C_{10}H_7O_8N_3Cl_2$ 1) Aethylester d. 3,5-Dichlor-2,4,6-Trinitrophenylessigsäure. Sm. 130—131° (Am. 32, 175 C. 1904 [2] 951).
- $C_{10}H_7O_8ClS_2$ 1) 2-Chlor-1,8-Dioxynaphtalin-3,6-Disulfonsäure (D.R.P. 153195 C. 1904 [2] 575).
- $C_{10}H_8ONBr$ 8) Methyläther d. 5-Brom-6-Oxychinolin. Sm. 94—95° (B. 36, 459 C. 1903 [1] 590).
- $C_{10}H_8ON_2Br_2$ 3) 6,8-Dibrom-4-Keto-2-Aethyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 278—280° (C. 1903 [2] 1194).
- 4) 6,8-Dibrom-4-Keto-3-Aethyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 229—230° (C. 1903 [2] 1194).
- $C_{10}H_8ON_2S$ 5) 4-Benzoyl-5-Methyl-1,2,3-Thiodiazol. Sm. 43°. + HgCl₂ (A. 325, 171 C. 1903 [1] 645).
- 6) 4-Acetyl-5-Phenyl-1,2,3-Thiodiazol. Sm. 70° (A. 325, 174 C. 1903 [1] 645).
- $C_{10}H_8O_2NCl$ 7) 4-Chlor-1-[α-Oximidoäthyl]benzofuran. Sm. 162—164° (A. 312, 334). — *III, 530.
- 8) 5-Chlor-6-Oxy-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 290° u. Zers. (B. 36, 462 C. 1903 [1] 590).
- $C_{10}H_8O_2N_2S$ 2) 2-Imido-4-Keto-5-[2-Oxybenzyliden]tetrahydrothiazol. Sm. 215° u. Zers. (M. 23, 963 C. 1903 [1] 284).
- $C_{10}H_8O_2N_3Br$ 2) 4-Oximido-5-Keto-3-Methyl-1-[4-Bromphenyl]-4,5-Dihydro-pyrazol. Sm. 188° (A. 328, 76 C. 1903 [2] 249).
- $C_{10}H_8O_3NCl$ 3) γ-Keto-α-[4-Chlor-2-Nitrophenyl]-α-Buten. Sm. 102° (B. 37, 1867 C. 1901 [1] 1601).
- $C_{10}H_8O_3NBr$ 8) γ-Keto-α-[4-Brom-2-Nitrophenyl]-α-Buten. Sm. 109° (B. 37, 1869 C. 1904 [1] 1601).
- $C_{10}H_8O_5N_4S$ 1) 1-Phenylazoisimidazol-4 [oder 5]-Carbonsäure-1⁴-Sulfonsäure. Zers. oberh. 265° (B. 37, 702 C. 1904 [1] 1562).
- $C_{10}H_9ONS_2$ 2) 2-Thiocarbonyl-4-Keto-5-Methyl-3-Phenyltetrahydrothiazol. Sm. 118—119° (M. 25, 179 C. 1904 [1] 896).
- $C_{10}H_9ON_3S_2$ 2) 4-Methylphenylamid d. Isorhodanformylamidothioameisensäure. Sm. 182° (Soc. 83, 93 C. 1903 [1] 230, 447).

- $C_{10}H_9O_2NCl_2$ 1) Methyl-3-Chlor-4-Acetylchloramidophenylketon. Sm. 56° (Soc. 85, 341 C. 1904 [1] 1404).
- $C_{10}H_9O_2NJ_2$ 1) 2,4-Dijodphenylimid d. Essigsäure. Sm. 93° (C. r. 139, 65 C. 1904 [2] 590).
2) 2,6-Dijodphenylimid d. Essigsäure. Sm. 147° (C. r. 138, 1505 C. 1904 [2] 319).
- $C_{10}H_9O_2NS$ 8) Äthylester d. Benzthiazol-1-Carbonsäure. Sm. 70—71° (B. 37, 3732 C. 1904 [2] 1451).
- $C_{10}H_9O_2N_2Cl$ *1) Dimethyläther d. 4-Chlor-5,6-Dioxy-2,3-Benzdiazin (Chloropiazin) (B. 36, 3374 C. 1903 [2] 1191).
- $C_{10}H_9O_2N_2J$ 5) Jodmethylat d. 8-Nitrochinolin. Zers. oberh. 100° (B. 36, 261 C. 1903 [1] 524).
- $C_{10}H_9O_2N_2Se$ 1) α -Phenyl- β -Selencyanacetylharnstoff. Sm. 147—148° (Ar. 241, 192 C. 1903 [2] 103).
- $C_{10}H_9O_2ClBr$ 1) Verbindung (aus 2,5,6-Tribrom-3-Oxy-4-Keto-1-[β -Brompropylden]-1,4-Dihydrobenzol). Sm. 102—103° (A. 329, 33 C. 1903 [2] 1436).
- $C_{10}H_9O_3NS$ *1) 1-Amidonaphtalin-2-Sulfonsäure. Sm. 262—265° u. Zers. NH_4 (R. 23, 180 C. 1904 [2] 227).
*14) 1-Naphtylsulfaminsäure. NH_4 , Ba + $3H_2O$ (R. 23, 182 C. 1904 [2] 227).
33) Hydroxylamid d. Naphtalin-1-Sulfonsäure. Sm. 153° u. Zers. (C. 1902 [2] 692; G. 33 [2] 305 C. 1904 [1] 288).
- $C_{10}H_9O_3N_2Cl$ 2) 3-Chlor-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydrochinolin. Sm. 120 bis 130° u. Zers. (B. 36, 1207 C. 1903 [1] 1417).
- $C_{10}H_9O_3N_2Br$ *2) 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydrochinolin (B. 36, 1205 C. 1903 [1] 1417).
- $C_{10}H_9O_4NBr_2$ 3) Methyläther d. α -Bromäthyl-3-Brom- β -Nitro-4-Oxyphenylketon. Sm. 92° (B. 37, 1548 C. 1904 [1] 1437).
- $C_{10}H_9O_4NS$ *7) 7-Amido-1-Oxynaphtalin-3-Sulfonsäure (J. pr. [2] 69, 90 C. 1904 [1] 813).
*27) 6-Amido-1-Oxynaphtalin-3-Sulfonsäure (J. pr. [2] 69, 82 C. 1904 [1] 812).
41) 8-Amido-1-Oxynaphtalin-4-Sulfonsäure (D.R.P. 140710 C. 1903 [1] 1058; D.R.P. 147852 C. 1904 [1] 133; J. pr. [2] 69, 86 C. 1904 [1] 813).
- $C_{10}H_9O_4N_2Cl$ 2) Diacetat d. 2-Chlor-1,4-Dioximido-1,4-Dihydrobenzol. Sm. 171 bis 172° (A. 303, 10). — *III, 257.
- $C_{10}H_9O_4N_2Br$ 3) 5-Brom- β -Dinitro-1,2,3,4-Tetrahydronaphtalin. Sm. 91° (Soc. 85, 747 C. 1904 [2] 447).
4) 6-Brom- β -Dinitro-1,2,3,4-Tetrahydronaphtalin. Sm. 105—106° (Soc. 85, 747 C. 1904 [2] 447).
- $C_{10}H_9O_6NS_2$ *8) 1-Amidonaphtalin-4,8-Disulfonsäure (J. pr. [2] 69, 80 C. 1904 [1] 812).
- $C_{10}H_9O_7NS_2$ *4) 8-Amido-1-Oxynaphtalin-3,6-Disulfonsäure (D.R.P. 147852 C. 1904 [1] 133; D.R.P. 153557 C. 1904 [2] 750).
- $C_{10}H_{10}ONCl$ 12) 1-Chlor-2-Nitroso-1-Methyl-2,3-Dihydroinden (Methylindennitrosochlorid) (A. 336, 4 C. 1904 [2] 1465).
- $C_{10}H_{10}ON_2S$ *1) 2-Thiocarbonyl-5-Keto-4-Methyl-1-Phenyltetrahydroimidazol. Sm. 185° (Bl. [3] 29, 1195 C. 1904 [1] 361).
- $C_{10}H_{10}ON_2Se$ 1) Methylphenylamid d. Selencyanessigsäure. Sm. 78° (Ar. 241, 216 C. 1903 [2] 104).
2) 2-Methylphenylamid d. Selencyanessigsäure. Sm. 126° (Ar. 241, 204 C. 1903 [2] 104).
3) 3-Methylphenylamid d. Selencyanessigsäure. Sm. 136° (Ar. 241, 205 C. 1903 [2] 104).
4) 4-Methylphenylamid d. Selencyanessigsäure. Sm. 160° (Ar. 241, 206 C. 1903 [2] 104).
- $C_{10}H_{10}OClJ$ 1) α [oder β]-Chlor- β [oder α]-Jod- γ -Keto- α -Phenylbutan. Sm. 59 bis 60° u. Zers. (C. 1904 [2] 507).
- $C_{10}H_{10}O_2NCl$ 8) Methyl-3-Chlor-4-Acetylamidophenylketon. Sm. 163° (Soc. 85, 341 C. 1904 [1] 1404).
9) Methyl-4-Acetylchloramidophenylketon. Sm. 92° (C. 1903 [1] 832; Soc. 85, 390 C. 1904 [1] 1404).

- $C_{10}H_{10}O_2NCl_3$ 3) $\beta\beta\beta$ -Trichlor- α -Oxyäthyläther d. α -Oximido- α -Phenyläthan (Chloralacetphenonoxim). Sm. 81° (C. 1897 [1] 300). — *III, 100.
- $C_{10}H_{10}O_2NBr$ 7) Methyl-4-Acetylbromamidophenylketon. Sm. 83° (C. 1903 [1] 832; Soc. 85, 390 C. 1904 [1] 1404).
- $C_{10}H_{10}O_2N_2S$ *12) Hydrazid d. Naphtalin-2-Sulfonsäure. Sm. 137 — 139° (C. 1904 [2] 1494).
- $C_{10}H_{10}O_2N_2Se$ 1) 2-Methoxyphenylamid d. Selencyanessigsäure. Sm. 110° (Ar. 241, 214 C. 1903 [2] 104).
2) 4-Methoxyphenylamid d. Selencyanessigsäure. Sm. 131° (Ar. 241, 215 C. 1903 [2] 104).
- $C_{10}H_{10}O_3N_4S$ 1) 1-Phenylazo-2-Methylimidazol-1'-Sulfonsäure. Zers. bei 250° (B. 37, 699 C. 1904 [1] 1562).
- $C_{10}H_{10}O_4NCl$ *7) Methyl ester d. 3-Chloracetylamido-4-Oxybenzol-1-Carbonsäure. Sm. 191° (A. 325, 332 C. 1903 [1] 771).
8) α -Oxy- γ -Keto- α -[4-Chlor-2-Nitrophenyl]butan. Sm. 76° (B. 37, 1866 C. 1904 [1] 1600).
- $C_{10}H_{10}O_4NBr$ 9) α -Oxy- γ -Keto- α -[4-Brom-2-Nitrophenyl]butan. Sm. 92° (B. 37, 1868 C. 1904 [1] 1601).
- $C_{10}H_{10}O_4N_4S_2$ 1) Nitril d. Benzol-1,3-Di[Sulfonamidoessigsäure]. Sm. 149 — 150° (B. 37, 4102 C. 1904 [2] 1727).
- $C_{10}H_{10}O_5NBr$ 3) Aethyl-4-Brom-6-Nitro-2-Methylphenylester d. Kohlensäure. Sm. 61 — 62° (Am. 32, 33 C. 1904 [2] 697).
4) Aethyl-6-Brom-2-Nitro-4-Methylphenylester d. Kohlensäure. Sm. 84 — 85° (Am. 32, 35 C. 1904 [2] 697).
- $C_{10}H_{11}ONCl_2$ 4) 3,5-Dichlor-4-Acetylamido-1,2-Dimethylbenzol. Sm. 185° (Soc. 85, 278 C. 1904 [1] 1009).
- $C_{10}H_{11}ONBr_2$ 8) Phenylamid d. $\alpha\beta$ -Dibromisobuttersäure. Sm. 128° (B. 36, 1269 C. 1903 [1] 1219).
- $C_{10}H_{11}ONS_2$ *4) Benzylester d. Acetylamidodithioameisensäure. Sm. 135 — 137° (B. [3] 29, 51 C. 1903 [1] 446).
5) Gem. Anhydrid d. Benzolcarbonsäure u. Aethylamidodithioameisensäure. Sm. 76° (B. 36, 3526 C. 1903 [2] 1326).
6) Gem. Anhydrid d. Benzolcarbonsäure u. Dimethylamidodithioameisensäure (N-Dimethyl-S-Benzoyldithiourethan). Sm. 59° (B. 36, 3525 C. 1903 [2] 1326).
- $C_{10}H_{11}ON_3S$ 2) 1-Amido-2-Thiocarbonyl-4-Keto-5-Methyl-3-Phenyltetrahydroimidazol. Sm. 150° (C. 1904 [2] 1027).
3) 5-Merkapto-4-Methyl-1-Benzyl-4,5-Dihydro-1,2,4-Triazol-3,5-Oxyd. Sm. 117° (B. 37, 2334 C. 1904 [2] 314).
4) Methyläther d. 3-Merkapto-5-Keto-4-Methyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 95° (B. 36, 3153 C. 1903 [2] 1074).
5) Aethyläther d. 3-Merkapto-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 138° (B. 36, 3153 C. 1903 [2] 1074).
6) 5-Thiocarbonyl-3-Keto-4-Methyl-1-Benzyltetrahydro-1,2,4-Triazol. Sm. 157° (B. 37, 2335 C. 1904 [2] 314).
- $C_{10}H_{11}OClBr_2$ 2) Methyläther d. 3,6-Dibrom-5-Oxy-2-Chlormethyl-1,4-Dimethylbenzol. Sm. 116 — 117° (A. 334, 302 C. 1904 [2] 985).
- $C_{10}H_{11}OBrH_2Hg$ 1) 2-Oxy-1,2,3,4-Tetrahydronaphtalin-3-Quecksilberbromid. Sm. 159° (B. 36, 3706 C. 1903 [2] 1239).
- $C_{10}H_{11}OBr_2J$ 1) Methyläther d. 3,6-Dibrom-5-Oxy-2-Jodmethyl-1,4-Dimethylbenzol. Sm. 114 — 115° (A. 334, 303 C. 1904 [2] 985).
- $C_{10}H_{11}OJH_2Hg$ 1) 2-Oxy-1,2,3,4-Tetrahydronaphtalin-3-Quecksilberjodid. Sm. 156° (B. 36, 3706 C. 1903 [2] 1239).
- $C_{10}H_{11}O_2NBr_2$ 1) Acetat d. 2-($\alpha\beta$ -Dibrom- β' -Oxyisopropyl)pyridin. Sm. 89 — 90° (B. 37, 745 C. 1904 [1] 1090).
- $C_{10}H_{11}O_2NS$ *5) Dimethyläther d. Benzoylimidomerkaptooxymethan. Sm. 43° ; Sd. 200°_{30} (Am. 32, 364 C. 1904 [2] 1506).
8) S-Phenylamid d. Thiooxalsäure-O-Aethylester. Fl. (B. 37, 3712 C. 1904 [2] 1449).
- $C_{10}H_{11}O_2N_2Cl$ 9) 4-Chlor-1,2-Di[Acetylamido]benzol. Sm. 201° u. Zers. (B. 36, 4028 C. 1904 [1] 294).
- $C_{10}H_{11}O_2ClBr_2$ 2) 3-Methyläther d. 5-Brom-3,4-Dioxy-1-[α -Chlor- β -Brompropyl]-benzol. Sm. 110° (A. 329, 15 C. 1903 [2] 1434).

- $C_{10}H_{11}O_2ClS$ 2) Chlorid d. 1,2,3,4-Tetrahydronaphtalin-5-Sulfonsäure. Sm. 70,5° (*Soc.* 85, 756 *C.* 1904 [2] 449).
- $C_{10}H_{11}O_3ClHg$ 1) Verbindung (aus Safrol). Zers. bei 170° (*B.* 36, 3579 *C.* 1903 [2] 1363).
2) isom. Verbindung (aus Safrol). Sm. 138° (*B.* 36, 3579 *C.* 1903 [2] 1363).
- $C_{10}H_{11}O_5N_3Br_3$ 1) Verbindung (aus d. Verb. $C_{10}H_{14}O_5N_3$). Sm. 78° (*Soc.* 85, 334 *C.* 1904 [1] 807, 1440).
- $C_{10}H_{11}O_6N_2Br$ 4) Dimethyläther d. β -Brom- β -Nitro- α - α -Dioxy- α -[4-Nitrophenyl]-äthan. Sm. 122,5—123° (*A.* 325, 16 *C.* 1903 [1] 287).
- $C_{10}H_{11}O_7NS$ 3) 1-Propylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. K, Ba + $4H_2O$ (*Am.* 30, 391 *C.* 1904 [1] 276).
- $C_{10}H_{11}O_7N_2Cl$ 1) Diäthyläther d. 6-Chlor-2,4-Dinitro-1,3,5-Trioxybenzol. Sm. 102—103°. Ba (*B.* 35, 3856 *C.* 1903 [1] 21; *Am.* 31, 378 *C.* 1904 [1] 1409).
- $C_{10}H_{11}NBr_2S$ 1) $\beta\gamma$ -Dibrompropylamid d. Benzolthiocarbonsäure. Sm. 208—209° (*B.* 37, 878 *C.* 1904 [1] 1004).
- $C_{10}H_{12}ONCl$ *21) 2,4-Dimethylphenylamid d. Chloressigsäure. Sm. 151—152° (*C.* 1903 [2] 110).
- $C_{10}H_{12}ONCl_3$ 4) 2,4,6-Trimethylpyridin + Chloral. Sm. 139,5° (*B.* 37, 1335 *C.* 1904 [1] 1361).
- $C_{10}H_{12}ON_2S_2$ 4) 5-Methyläther d. 5-Merkapto-2-Oxy-2-Methyl-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 182° (*J. pr.* [2] 67, 251 *C.* 1903 [1] 1265).
5) Methylester d. Acetylphenylamidodithioameisensäure. Sm. 126° (*J. pr.* [2] 67, 252 *C.* 1903 [1] 1265).
6) Aethylester d. β -Phenylthioureidothiolameisensäure. Sm. 131 bis 132° (*Am.* 30, 181 *C.* 1903 [2] 873).
- $C_{10}H_{12}O_2NCl$ *8) Anetholnitrosylechlorid. Sm. 127—128°. Na (*A.* 332, 326 *C.* 1904 [2] 651; *C.* 1904 [2] 1038).
- $C_{10}H_{12}O_2N_2S$ 17) Methylester d. 2-Methylphenylthiopseudoallophansäure. Sm. 175—176°. HCl (*Soc.* 83, 564 *C.* 1903 [1] 1123, 1306).
18) Methylester d. 4-Methylphenylthiopseudoallophansäure. Sm. 175—176° (*Soc.* 83, 563 *C.* 1903 [1] 1123).
19) Amid d. Phenylamidothioessigsäure-2-Carbonsäuremethylester. Sm. 178° (*D.R.P.* 141698 *C.* 1903 [1] 1244).
- $C_{10}H_{12}O_2N_2Se$ 1) Methylphenylamid d. Carbaminselenessigsäure. Sm. 123 u. Zers. (*Ar.* 241, 216 *C.* 1903 [2] 104).
- $C_{10}H_{12}O_2N_3J$ 1) Jodmethylat d. 6-Nitro-1,2-Dimethylbenzimidazol. Sm. 267°. + J_2 (*B.* 36, 3970 *C.* 1904 [1] 177).
2) Jodmethylat d. 2-Nitro-1,5-Dimethylbenzimidazol. Sm. 238°. + J_2 (*B.* 36, 3971 *C.* 1904 [1] 178).
- $C_{10}H_{12}O_2N_4S$ 1) α -[3-Nitrobenzyliden]amido- α - β -Dimethylthioharnstoff. Sm. 227 bis 228° (*B.* 37, 2321 *C.* 1904 [2] 311).
- $C_{10}H_{12}O_3NBr$ *1) 6-Brom-2-Nitro-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 109 bis 111° (*A.* 333, 357 *C.* 1904 [2] 1116).
6) Aethylester d. 5-Brom-2-Oxy-3-Methylphenylamidoameisensäure. Sm. 123° (*Am.* 32, 34 *C.* 1904 [2] 697).
7) Aethylester d. 5-Brom-6-Oxy-3-Methylphenylamidoameisensäure. Sm. 83° (*Am.* 32, 36 *C.* 1904 [2] 697).
8) Aethyl-4-Brom-6-Amido-2-Methylphenylester d. Kohlensäure. HCl (*Am.* 31, 501 *C.* 1904 [2] 95; *Am.* 32, 34 *C.* 1904 [2] 697).
9) Aethyl-6-Brom-2-Amido-4-Methylphenylester d. Kohlensäure. HCl (*Am.* 31, 501 *C.* 1904 [2] 95; *Am.* 32, 36 *C.* 1904 [2] 697).
- $C_{10}H_{12}O_3N_5Cl$ 1) 8-Chloracetyl-amido-2,6-Diketo-1,3,7-Trimethylpurin. Sm. 208° (*D.R.P.* 139960 *C.* 1903 [1] 859).
- $C_{10}H_{12}O_4NBr$ 2) Diäthyläther d. 6-Brom-4-Nitro-1,3-Dioxybenzol. Sm. 103 bis 104° (*Am.* 28, 467 *C.* 1903 [1] 323).
- $C_{10}H_{12}O_5N_2S$ 1) 2-Nitro-4-Aethoxylphenylamid d. Aethensulfonsäure. Sm. 92° (*B.* 36, 3632 *C.* 1903 [2] 1327).
- $C_{10}H_{12}O_6N_2S$ 1) r- α -[5-Nitro-2-Methylphenylsulfon]amidopropionsäure. Sm. 96°. Ba (*H.* 43, 70 *C.* 1904 [2] 1607).
- $C_{10}H_{12}O_6N_2S_2$ 1) Amid d. 1,3-Phenylendi[Sulfonessigsäure]. Sm. 229—230° (*J. pr.* [2] 68, 327 *C.* 1903 [2] 1171).

- $C_{10}H_{12}O_3N_2S_2$ *1) Benzol-1,3-Di[Sulfonamidoessigsäure]. Sm. 181° u. Zers. (B. 37, 4102 C. 1904 [2] 1727).
- $C_{10}H_{12}Cl_2BrJ$ 2) $\alpha\beta$ -Dichloräthyl-4-Aethylphenyljodoniumbromid. Sm. 129° (A. 327, 297 C. 1903 [2] 352).
- $C_{10}H_{13}ONS$ 23) 4-Aethoxyphenylamid d. Thioessigsäure. Sm. 99–100° (B. 37, 876 C. 1904 [1] 1004).
- $C_{10}H_{13}ON_3Cl_2$ 1) 4-Semicarbazol-1-Dichlormethyl-1,2-Dimethyl-1,4-Dihydrobenzol. Sm. 212° (B. 35, 4216 C. 1903 [1] 161).
- 2) 4-Semicarbazol-1-Dichlormethyl-1,3-Dimethyl-1,4-Dihydrobenzol. Sm. 182–186° (B. 35, 4217 C. 1903 [1] 161).
- $C_{10}H_{13}ON_3S_2$ 1) β -Amid d. α -Phenylhydrazin- $\alpha\beta$ -Di[Thiocarbonsäure]- α -Aethyl-ester. Sm. 173° u. Zers. (B. 37, 185 C. 1904 [1] 669).
- $C_{10}H_{13}O_2N_2Cl$ 3) γ -Chlor- α -[4-Methylphenyl]nitrosamido- β -Oxypropan. Sm. 70,5° (B. 37, 3035 C. 1904 [2] 1213).
- $C_{10}H_{13}O_2N_2S$ 3) Aethylester d. Phenylthiosemicarbazidoameisensäure. Sm. 142° (P. GUTMANN, Dissert., Heidelberg 1903).
- $C_{10}H_{13}O_2ClHg$ 1) Verbindung (aus Methylchavicol). Sm. 81–82° (B. 36, 3580 C. 1903 [2] 1363).
- 2) isom. Verbindung (aus Methylchavicol). Sm. 55° (B. 36, 3581 C. 1903 [2] 1363).
- $C_{10}H_{13}O_2BrHg$ 1) Verbindung (aus Methylchavicol). Sm. 70° (B. 36, 3581 C. 1903 [2] 1363).
- $C_{10}H_{13}O_3NS$ 6) 5-Amido-1,2,3,4-Tetrahydronaphtalin-8-Sulfonsäure + H_2O . Na + $2H_2O$, Ba + $3H_2O$ (Soc. 85, 755 C. 1904 [2] 449).
- 7) 4-Aethoxyphenylamid d. Aethensulfonsäure. Sm. 88° (B. 36, 3631 C. 1903 [2] 1327).
- $C_{10}H_{13}O_3ClS$ 7) Chlorid d. 4-Oxy-1-Aethylbenzoläthyläther- β -Sulfonsäure. Fl. (B. 36, 3594 C. 1903 [2] 1366).
- $C_{10}H_{13}O_4BrS$ 4) 6-Brom-4-Oxy-1-tert. Butylbenzol-2-Sulfonsäure. K (Soc. 83, 330 C. 1903 [1] 875).
- $C_{10}H_{13}O_3N_2Br$ 1) Verbindung (aus d. Verb. $C_{10}H_{14}O_5N_2$). Sm. 157° (Soc. 85, 332 C. 1904 [1] 807, 1440).
- $C_{10}H_{14}ONCl$ 6) γ -Chlor- α -[4-Methylphenyl]amido- β -Oxypropan. Sm. 81–82° (B. 37, 3035 C. 1904 [2] 1213).
- $C_{10}H_{14}ONJ$ 4) Jodmethylat d. 2-Dimethylamidobenzol-1-Carbonsäurealdehyd. Sm. 163,5° (B. 37, 978 C. 1904 [1] 1079).
- $C_{10}H_{14}O_2N_2Br_2$ 2) Verbindung (aus Pilocarpin). (HBr, Br_2) (C. r. 97, 1435). — III, 925.
- $C_{10}H_{14}O_3NCl$ *1) α -Chlor- α' -Nitrocampher (C. 1903 [2] 374).
- $C_{10}H_{14}O_3NBr$ *4) π -Bromcamphoryloxim (π -Brom- α -Isonitrosocampher) (Soc. 83, 967 C. 1903 [1] 1611 C. 1903 [2] 666).
- 7) β -Bromcamphoryloxim + H_2O . Sm. 112° (Soc. 83, 966 C. 1903 [1] 1411 C. 1903 [2] 666).
- 8) β -Brom- α' -Nitrocampher. Sm. 114° (Soc. 83, 964 C. 1903 [2] 665).
- 9) Pseudo- β -Brom- α' -Nitrocampher. Sm. 132° u. Zers. K + $2H_2O$ (Soc. 83, 965 C. 1903 [1] 1411; C. 1903 [2] 665).
- $C_{10}H_{14}O_3NJ$ *1) Jodmethylat d. Damascenin + H_2O . Sm. 172–173° wasserfrei (Ar. 242, 318 C. 1904 [2] 457).
- $C_{10}H_{14}O_5NP$ 1) Trimethylester d. Phenylamidophosphinsäure-3-Carbonsäure. Sd. 184–186° (A. 326, 243 C. 1903 [1] 868).
- 2) Trimethylester d. Phenylamidophosphinsäure-4-Carbonsäure. Sd. 166–167° (A. 326, 244 C. 1903 [1] 868).
- $C_{10}H_{14}O_5N_3Cl$ 1) $\gamma\epsilon$ -Lakton d. ζ -Lakton- β -Semicarbazol- ϵ -Oxyhexan- $\alpha\gamma$ -Dicarbonsäure- α -Methylester. Sm. 132–133° (C. r. 136, 436 C. 1903 [1] 698).
- $C_{10}H_{15}OBrMg$ 1) Magnesiumbromcampher. + $(C_2H_5)_2O$ (B. 36, 2614 C. 1903 [2] 623).
- $C_{10}H_{15}O_2NS$ *2) Diäthylamid d. Benzolsulfonsäure. Sm. 42–43° (B. 36, 2706 C. 1903 [2] 829).
- $C_{10}H_{15}O_2N_2Cl$ 3) Chlorpernitrosocampher. Sm. 192° (C. 1903 [2] 373).
- 4) Isochlorpernitrosocampher. Sm. 75°. K (C. 1903 [2] 373).
- 5) Pseudochlorpernitrosocampher. Sm. 90°. HCl, Pikrat (C. 1903 [2] 373).

- $C_{10}H_{15}O_2N_2Cl$ 6) Verbindung (aus Pseudochlorpernitrosocampher). Sm. 80° (C. 1903 [2] 374).
- $C_{10}H_{15}O_2N_2Br$ *1) α -Brompernitrosocampher. Sm. 114° (C. 1904 [2] 1697).
- *2) β -Brompernitrosocampher. Sm. 67° (C. 1904 [2] 1697).
- $C_{10}H_{15}O_5NS$ 10) Amid d. 4-Oxy-1-Aethylbenzoläthyläther-*p*-Sulfonsäure. Sm. 118° (B. 36, 3594 C. 1903 [2] 1366).
- 11) Methylamid d. 1-(α -Oxyisopropyl)benzol-2-Sulfonsäure. Sm. $105-106^\circ$ (B. 37, 3264 C. 1904 [2] 1031).
- $C_{10}H_{15}O_4BrS$ 3) 1-Bromcamphersulfonsäure. NH_4 (Soc. 79, 76). — *III, 371.
- $C_{10}H_{15}O_5N_2P$ 1) 3-Nitrophenylmonamid d. Phosphorsäurediäthylester. Sm. 120° (A. 326, 237 C. 1903 [1] 867).
- $C_{10}H_{15}O_5N_3J_2$ 1) Aethylester d. Dijodacetyl-di[Amidoacetyl]amidoessigsäure. Sm. 190° u. Zers. (B. 37, 1296 C. 1904 [1] 1336).
- $C_{10}H_{15}O_5BrS$ *1) Bromdihydrocampholensulfocarbonsäure. Sm. 155° u. Zers. (Soc. 83, 1110 C. 1903 [2] 794).
- $C_{10}H_{15}O_6N_4Cl$ 1) Chloracetyltri[Amidoacetyl]amidoessigsäure. Sm. 256° u. Zers. (B. 37, 2507 C. 1904 [2] 427).
- $C_{10}H_{16}ONCl$ *7) Pinennitrosylchlorid. Sm. 115° (Soc. 85, 759 C. 1904 [2] 220, 524).
- *11) β -Chlorcampherxim. Sm. 127° (C. 1903 [2] 373).
- $C_{10}H_{16}OCl_2Hg_2$ 1) Verbindung (aus Camphen). Sm. noch nicht bei 250° (B. 36, 3576 C. 1903 [2] 1362).
- $C_{10}H_{16}O_2NCl$ 4) sec. 1-Nitrohydrochlorpinen. Sm. $136-142^\circ$ (C. 1903 [1] 513).
- 5) tert. Nitrohydrochlorpinen. Sm. $195-200^\circ$ (C. 1903 [1] 513).
- $C_{10}H_{16}O_2NBr$ 3) Bromnitrodihydrocamphen. Sm. $158-172^\circ$ (C. 1903 [1] 513).
- $C_{10}H_{16}NClS$ 1) Chlormethylat d. 4-Merkapto-2,6-Dimethylpyridin-4-Aethyläther. Sm. 136° (A. 331, 259 C. 1904 [1] 1223).
- $C_{10}H_{16}NClSe$ 1) Chlormethylat d. 4-Seleno-2,6-Dimethylpyridin-4-Aethyläther. Sm. 126° (A. 331, 263 C. 1904 [1] 1223).
- $C_{10}H_{16}NJS$ 1) Jodmethylat d. 4-Merkapto-2,6-Dimethylpyridin-4-Aethyläther. Sm. 154° u. Zers. (A. 331, 259 C. 1904 [1] 1223).
- $C_{10}H_{16}NJSe$ 1) Jodmethylat d. 4-Seleno-2,6-Dimethylpyridin-4-Aethyläther. Sm. 155° (A. 331, 263 C. 1904 [1] 1223).
- $C_{10}H_{17}O_3N_3S$ 1) 2-Thiocarbonyl-4-Keto-3,5,5-Trimethyltetrahydroimidazol-1- α -Amidoisobuttersäure. Sm. 129° (C. 1904 [2] 1025).
- $C_{10}H_{17}O_4N_2Br$ 1) α -Bromisocapronylamidoacetylamidoessigsäure. Sm. $144-145^\circ$ (B. 36, 2989 C. 1903 [2] 1112).
- $C_{10}H_{18}ONCl$ *1) Menthennitrosochlorid. Sm. 117° (B. 37, 1375 C. 1904 [1] 1441).
- $C_{10}H_{18}ONJ$ 2) Dihydroeucarvoximhydrojodid. Sm. $161-162^\circ$ (B. 31, 2071). — *III, 375.
- $C_{10}H_{18}O_3NCl$ 4) i-Terpineolnitrosochlorid. Sm. $120-122^\circ$ (Soc. 85, 666 C. 1904 [2] 330).
- 5) isom. i-Terpineolnitrosochlorid. Sm. $102-103^\circ$ (C. 1901 [1] 1008).
- 6) Chlormethylat d. Methylscopolin. Sm. noch nicht bei 250° . $2 + PtCl_3 + AuCl_3$ (Ar. 236, 30). — *III, 619.
- $C_{10}H_{20}O_2N_2Cl_2$ *1) Bistrimethyläthylennitrosochlorid (B. 36, 1765 C. 1903 [2] 100).
- $C_{10}H_{20}O_2N_2Br_2$ 1) bim. β -Brom- γ -Nitroso- β -Methylbutan. Sm. 67° (B. 37, 534 C. 1904 [1] 864).
- $C_{10}H_{22}ONCl$ 1) Chloräthylat d. 3,4,4,6-Tetramethyltetrahydro-1,3-Oxazin. $2 + PtCl_3 + AuCl_3$ (M. 25, 840 C. 1904 [2] 1240).
- $C_{10}H_{22}NCl_2P$ 1) Diamylamidodichlorphosphin. Sd. 140° , (A. 326, 157 C. 1903 [1] 761).
- $C_{10}H_{24}O_4NP$ 1) Dipropylmonamid d. Phosphorsäurediäthylester. Sd. $105-110^\circ$,₁₂ (A. 326, 185 C. 1903 [1] 820).
- $C_{10}H_{25}ON_2P$ 1) Aethyläther d. Di[Diäthylamido]oxyphosphin. Sd. $105-108^\circ$,₂₈ (A. 326, 161 C. 1903 [1] 761).
- $C_{10}H_{25}O_2N_2P$ 1) Di[Diäthylamid] d. Phosphorsäuremonoäthylester. Sd. 140° ,₁₅ (A. 326, 195 C. 1903 [1] 820).
- $C_{10}H_{26}O_3N_2Cl_2$ *1) Di[Chlormethylat] d. Di[Dimethylamidomethoxymethyl]äther. $2 + PtCl_4$ (A. 334, 18 C. 1904 [2] 947).

- $C_{10}H_{16}O_4N_2Cl_2S_2$ 1) Di[Dichloramid] d. Naphtalin-2,7-Disulfonsäure. Sm. 165° (C. 1904 [2] 435).
- $C_{10}H_{17}O_2NCl_2S$ 19) Dichloramid d. Naphtalin-1-Sulfonsäure. Sm. 91° (C. 1904 [2] 435).

- $C_{10}H_7O_2NCl_2S$ 20) Dichloramid d. Naphtalin-2-Sulfonsäure. Sm. 68° (*C.* 1904 [2] 435).
- $C_{10}H_7O_3NCl_2S$ 1) 2,4-Dichlor-1-Amidonaphtalin-2-Sulfonsäure (D.R.P. 153298 *C.* 1904 [2] 750).
- $C_{10}H_8O_3NClS$ *6) 8-Chlor-1-Amidonaphtalin-5-Sulfonsäure (D.R.P. 147852 *C.* 1904 [1] 133).
- $C_{10}H_8O_6NClS_2$ 1) 8-Chlor-1-Amidonaphtalin-3,6-Disulfonsäure (D.R.P. 147852 *C.* 1904 [1] 133).
- $C_{10}H_{10}O_6NClS$ 1) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäurepropylester-2-Sulfonsäure. Sm. 76° (*Ann.* 30, 390 *C.* 1904 [1] 276).
- $C_{10}H_{13}O_3NBr_2S$ 1) 4-Aethoxyphenylamid d. $\alpha\beta$ -Dibromäthan- α -Sulfonsäure. Sm. 139° (*B.* 36, 3633 *C.* 1903 [2] 1327).
- $C_{10}H_{14}O_3NCl_2P$ 1) 2,4-Dichlorphenylmonamid d. Phosphorsäurediäthylester. Sm. 106° (*A.* 326, 229 *C.* 1903 [1] 867).
- $C_{10}H_{14}O_3NBr_2P$ 1) 2,4-Dibromphenylmonamid d. Phosphorsäurediäthylester. Sm. 114° (*A.* 326, 235 *C.* 1903 [1] 867).
- $C_{10}H_{15}O_2NClBr$ 1) Bromnitrohydrochlorpinen. Sm. 105—110° (*C.* 1903 [1] 513).
- $C_{10}H_{20}ON_2ClP$ 2) 1,1'-Dipiperidid d. Phosphorsäuremonochlorid. Sm. 184°₁₂ (*A.* 326, 196 *C.* 1903 [1] 820).
- $C_{10}H_{20}N_2ClSP$ 1) 1,1'-Dipiperidid d. Thiophosphorsäuremonochlorid. Sm. 98° (*A.* 326, 217 *C.* 1903 [1] 822).
- $C_{10}H_{22}ONCl_2P$ *1) Diisoamylmonamid d. Phosphorsäuredichlorid. Sd. 150°₁₂ (*A.* 326, 186 *C.* 1903 [1] 820).
- $C_{10}H_{22}NCl_2SP$ *1) Diamylmonamid d. Thiophosphorsäuredichlorid. Sd. 160—163°₁₃ (*A.* 326, 213 *C.* 1903 [1] 822).
- $C_{10}H_{23}O_2NClP$ 1) Diisobutylmonamid d. Aethylphosphorsäuremonochlorid. Fl. (*A.* 326, 193 *C.* 1903 [1] 820).
- $C_{10}H_{25}ON_2ClS$ 1) Di[Diäthylamid] d. Thiophosphorsäuremonoäthylester. Sd. 149 bis 151° (i.V.) (*A.* 326, 162 *C.* 1903 [1] 761).

C₁₁-Gruppe.

- $C_{11}H_{12}$ 5) Phenocyklohepten. Sd. 234° (*Soc.* 83, 247 *C.* 1903 [1] 586, 882).
- $C_{11}H_{14}$ *4) α -Phenyl- γ -Methyl- α -Buten. Sd. 201—202° (207°₇₅₇) (*B.* 37, 1088 *C.* 1904 [1] 1260; *B.* 37, 2316 *C.* 1904 [2] 217).
- *6) 4-Isopropylphenyläthen. Sd. 76°₁₀ (*B.* 36, 1640 *C.* 1903 [2] 27).
- *8) 2,4,5-Trimethylphenyläthen. Sd. 97°₁₃ (*B.* 36, 1641 *C.* 1903 [2] 27).
- *11) 2,4,6-Trimethylphenyläthen. Sd. 206—207°₇₅₅ (*B.* 36, 1644 *C.* 1903 [2] 27).
- *15) δ -Phenyl- β -Methyl- β -Buten. Sd. 205° (*B.* 37, 2314 *C.* 1904 [2] 217).
- 16) α -Phenyl- β -Penten. Sd. 201° (*B.* 37, 2313 *C.* 1904 [2] 216).
- 17) γ -Phenyl- β -Penten. Sd. 197—198°₇₅₃ (*B.* 36, 3692 *C.* 1903 [2] 1426; *Bl.* [3] 31, 755 *C.* 1904 [2] 303).
- 18) δ -Phenyl- β -Methyl- β -Buten. Sd. 114°₃₀ (*B.* 37, 2313 *C.* 1904 [2] 216).
- 19) γ -Phenyl- γ -Methyl- α -Buten. Sd. 191—192°₇₅₃ (*B.* 36, 3691 *C.* 1903 [2] 1426).
- 20) α -[4-Methylphenyl]- α -Buten. Sd. 210—212° (*B.* 36, 2237 *C.* 1903 [2] 438).
- 21) α -[4-Aethylphenyl]propen. Sd. 216—218° (*B.* 36, 2236 *C.* 1903 [2] 438).
- 22) α -[2,4-Dimethylphenyl]propen. Sd. 206—208° (*B.* 36, 2236 *C.* 1903 [2] 437).
- 23) α -[3,4-Dimethylphenyl]propen. Sd. 224—226° (*B.* 36, 2236 *C.* 1903 [2] 437; *B.* 37, 1090 *Ann.* *C.* 1904 [1] 1260).
- $C_{11}H_{16}$ *2) Isoamylbenzol. Sd. 198—199°₇₅₇ (*B.* 37, 2317 *C.* 1904 [2] 217).
- *3) tert. Amylbenzol. Sd. 77°₁₅ (*A.* 327, 223 *C.* 1903 [1] 1408).
- *4) γ -Phenylpentan. Sd. 187°₇₅₃ (*B.* 31, 3693 *C.* 1903 [2] 1427).
- *12) 4-Isopropyl-1-Aethylbenzol. Sd. 196°₇₈₃ (*B.* 36, 1640 *C.* 1903 [2] 27).
- *19) 5-Aethyl-1,2,4-Trimethylbenzol. Sd. 208°₇₅₈ (*B.* 36, 1642 *C.* 1903 [2] 27).
- *20) 2-Aethyl-1,3,5-Trimethylbenzol. Sd. 207—208°₇₅₅ (*B.* 36, 1644 *C.* 1903 [2] 27; *B.* 37, 1717 *C.* 1904 [1] 1489).
- *22) α -Lauroil (*G.* 33 [1] 407 *C.* 1903 [2] 566).
- 33) γ -Phenyl- β -Methylbutan. Sd. 188—189°₇₅₃ (*B.* 36, 3691 *C.* 1903 [2] 1426).

- $C_{11}H_{20}$ *6) β -Undekin. Sd. 199—201° (*B.* 36, 2551 *C.* 1903 [2] 654).
 13) Kohlenwasserstoff (aus 1-Oxy-1-Isoamylhexahydrobenzol). Sd. 194°₇₆₀ (*C. r.* 138, 1323 *C.* 1904 [2] 219; *C. r.* 139, 344 *C.* 1904 [2] 704).

$C_{11}H_{22}$ *8) β -Undeken. Sd. 78,5°₁₄ (*B.* 36, 2548 *C.* 1903 [2] 654).

— 11 II —

- $C_{11}H_8O_5$ C 60,5 — H 2,7 — O 36,7 — M. G. 218.
 1) Purpurogallon. Sm. 262—264° (*Soc.* 83, 197 *C.* 1903 [1] 402, 640).
 2) Isopurpurogallon (*Soc.* 83, 198 *C.* 1903 [1] 402, 640).
- $C_{11}H_7N$ *1) Nitril d. Naphtalin-1-Carbonsäure. Sm. 37—38°; Sd. 295—297° (*B.* 37, 2817 *C.* 1904 [2] 649).
- $C_{11}H_5O_3$ *4) Naphtalin-1-Carbonsäure (*B.* 37, 627 *C.* 1904 [1] 810).
- $C_{11}H_5O_3$ *2) 2-Phenyl-1,3-Diketo-2,3-Dihydroinden. Cu (*B.* 37, 3383 *C.* 1904 [2] 1219).
 23) Phenylester d. Furan-2-Carbonsäure. Sm. 41,5° (*B.* 37, 2951 *C.* 1904 [2] 993).
- $C_{11}H_8O_4$ *17) Verbindung (aus d. Aldehyd d. 2-Brommethylfuran-5-Carbonsäure). Sm. 117° (*C.* 1903 [1] 421; *Soc.* 83, 187 *C.* 1903 [1] 421, 670).
 23) 4-Keto-3-Acetyl-1,2-Benzpyron? Sm. 132° (*D.R.P.* 102746 *C.* 1899 [2] 408). — *II, 1134.
 24) Methylester d. 1,2-Benzpyron-6-Carbonsäure. Sm. 174° (*B.* 37, 196 *C.* 1904 [1] 661).
 25) Acetat d. 4-Oxy-1,2-Benzpyron. Sm. 103° (*B.* 36, 465 *C.* 1903 [1] 636).
 26) Verbindung (aus Phloroglucin u. Furfuroh) (*B.* 35, 4443 *C.* 1903 [1] 422; *B.* 37, 315 *C.* 1904 [1] 697).
- $C_{11}H_8O_5$ *5) Purpurogallin. Sm. 274—275° u. Zers. K (*Soc.* 83, 194 *C.* 1903 [1] 639; *Soc.* 85, 245 *C.* 1904 [1] 798, 1005; *C.* 1904 [1] 927).
- $C_{11}H_8O_6$ *1) α -[3,4-Dioxyphenyl]äthen-3,4-Methylenäther- $\beta\beta$ -Dicarbonsäure. Sm. 187—189°. Ca + 2 $\frac{1}{2}$ H₂O (*C.* 1904 [1] 880).
- $C_{11}H_8N_2$ 11) Nitril d. 2-Methylechinolin-3-Carbonsäure. Sm. 125—127° (*J. pr.* [2] 67, 507 *C.* 1903 [2] 252).
- $C_{11}H_9N$ 6) 2-Methylenamidonaphtalin. Sm. 62—64° (*B.* 35, 4167 *C.* 1903 [1] 172).
 7) polym. 2-Methylenamidonaphtalin. Sm. 203° (*B.* 35, 4168 *C.* 1903 [1] 172).
 2) 6-Amido-2-Phenylpurin (*B.* 37, 2271 *C.* 1904 [2] 199).
- $C_{11}H_{10}N_5$ 10) γ -Keto- α -Phenyl- α -Pentin. Sm. 8—10°; Sd. 137—138°₁₆ (*C. r.* 137, 796 *C.* 1904 [1] 43).
- $C_{11}H_{10}O_2$ *4) α -Phenyl- $\alpha\gamma$ -Butadien- δ -Carbonsäure. Sm. 166°. NH₄ (*A.* 336, 196 *C.* 1904 [2] 1731).
 *17) Aethylester d. Phenylpropionsäure. Sd. 151—152°₁₂₋₁₃ (*Soc.* 83, 1161 *C.* 1903 [2] 1370).
- $C_{11}H_{10}O_3$ 31) 7-Oxy-3-Aethyl-1,2-Benzpyron. Sm. 123—124° (*B.* 37, 2383 *C.* 1904 [2] 306).
 32) $\alpha\gamma$ -Lakton d. $\beta\gamma$ -Dioxy- α -Phenyl- α -Buten- α -Carbonsäure (Methylphenyltetronsäure). Sm. 178° (*B.* 36, 2255 *C.* 1903 [2] 437).
- $C_{11}H_{10}O_4$ *3) 5,7-Dimethyläther d. 5,7-Dioxy-1,2-Benzpyron (Citropten). Sm. 146 bis 147° (*Ar.* 242, 290 *C.* 1904 [2] 105).
 *16) α -Phenylpropen- $\beta\gamma$ -Dicarbonsäure. Sm. 180° u. Zers. (*M.* 24, 367 *C.* 1903 [2] 496).
 *21) cis-1-Phenyl-R-Trimethylen-trans-2,3-Dicarbonsäure. Sm. 175° (*J. pr.* [2] 68, 163 *C.* 1903 [2] 760; *B.* 36, 3780 *C.* 1904 [1] 42).
 *33) r-Phenylisoparakonsäure. Sm. 170°. Ba (*A.* 330, 329, 332 *C.* 1904 [1] 928).
 *39) d-Phenylparakonsäure + $\frac{1}{4}$ H₂O. Sm. 134° (wasserfrei) (*A.* 330, 347 *C.* 1904 [1] 929).
 *40) l-Phenylparakonsäure + $\frac{1}{4}$ H₂O. Sm. 134° (wasserfrei) (*A.* 330, 347 *C.* 1904 [1] 929).
 *43) Methylester d. $\alpha\gamma$ -Diketo- α -Phenylpropan- γ -Carbonsäure (*Ph. Ch.* 23, 311). — *II, 1074.
 44) Dimethyläther d. 7,8-Dioxy-1,4-Benzpyron + H₂O. Sm. 124° (wasserfrei) (*B.* 36, 128 *C.* 1903 [1] 468).

- $C_{11}H_{10}O_4$ 45) α -[3,4-Dioxyphenyl]äthin-3,4-Dimethyläther- β -Carbonsäure (3,4-Dimethoxyphenylpropionsäure). Sm. 149° u. Zers. (C. 1903 [1] 580; Soc. 85, 165 C. 1904 [1] 724).
- 46) cis-1-Phenyl-R-Trimethylen-cis-trans-2,3-Dicarbonsäure. Sm. 121° (B. 36, 3782 C. 1904 [1] 42).
- $C_{11}H_{10}O_5$ 47) d-Phenylisoparakonsäure. Sm. 182° (A. 330, 339 C. 1904 [1] 929).
- 48) l-Phenylisoparakonsäure. Sm. 182° (A. 330, 339 C. 1904 [1] 929).
- 18) α -[4-Oxyphenyl]äthenmethyläther- $\beta\beta$ -Dicarbonsäure. Sm. 185 bis 190° (B. 31, 2607). — *II, 1131.
- 19) Dimethylester d. Benzol-1-Carbonsäure-2-Ketocarbonsäure. Sm. 66 bis 68° (M. 24, 922 C. 1904 [1] 514).
- $C_{11}H_{10}O_6$ 14) α -[3,4-Dioxyphenyl]äthan-3,4-Methylenäther- $\beta\beta$ -Dicarbonsäure. Sm. 142—143° u. Zers. $Ca + \frac{1}{2}H_2O$, $Ba + 3H_2O$ (C. 1904 [1] 879).
- 15) α -Phenyläthan- β ,2,4-Tricarbonsäure. Sm. 265—266° (A. 293, 171). — *II, 1171.
- $C_{11}H_{10}N_2$ 13) 3-Methyl-6-Phenyl-1,2-Diazin. Sm. 104—105°; Sd. 185°₁₀₋₂₀. HCl, (HCl, $HgCl_2$), (2HCl, $PtCl_4$), (HCl, $AuCl_3$), Chromat (B. 36, 492 C. 1903 [1] 653).
- $C_{11}H_{11}N$ *6) 1-4-Methylphenylpyrrol. Sm. 82°; Sd. 252°_{725.5} (B. 37, 2795 C. 1904 [2] 531).
- *15) 2,4-Dimethylchinolin (B. 37, 1325 C. 1904 [1] 1359).
- 32) 1-[2-Methylphenyl]pyrrol. Sd. 246° (B. 37, 2795 C. 1904 [2] 531).
- 33) 2-[2-Methylphenyl]pyrrol. Sd. 284° (B. 37, 2796 C. 1904 [2] 531).
- 34) 2-[4-Methylphenyl]pyrrol. Sm. 153°; Sd. 294° (B. 37, 2796 C. 1904 [2] 531).
- $C_{11}H_{11}O$ 17) 2,2-Dimethyl-1,2-Benzopyran. Sd. 97°₁₄ (B. 37, 494 C. 1904 [1] 805).
- $C_{11}H_{12}O_2$ *2) Methyläther d. γ -Keto- α -[4-Oxyphenyl]- α -Buten. + $2H_3PO_4$, + Chloressigsäure (C. 1903 [2] 284).
- *3) $\alpha\gamma$ -Diketo- α -Phenylpentan. Sd. 150—155°₁₈. Cu (C. r. 139, 209 C. 1904 [2] 649).
- *28) Aethylester d. β -Phenylakrylsäure. 3 + $SbCl_5$, + $FeCl_3$, 2 + $SnCl_4$ (B. 37, 3667 C. 1904 [2] 1569).
- *31) β -[2,4-Dimethylphenyl]akrylsäure. Sm. 176—177°. Ag (G. 34 [2] 116 C. 1904 [2] 1214).
- 34) γ -Keto- α -[6-Oxy-3-Methylphenyl]- α -Buten. Sm. 128—129° (B. 37, 3186 C. 1904 [2] 991).
- 35) Dimethyl-m-Biscyklohexanon. Sm. 125—127° (B. 36, 2162 C. 1903 [2] 370).
- 36) β -[4-Methylphenyl]propen- α -Carbonsäure. Sm. 136° (C. r. 138, 986 Anm. C. 1904 [1] 1439).
- 37) β -[2,5-Dimethylphenyl]akrylsäure. Sm. 129—130°. Na, Ca, Ag (G. 34 [2] 119 C. 1904 [2] 1214).
- 38) Methylester d. β -Phenylpropen- α -Carbonsäure. Sm. 28°; Sd. 259 bis 260° (C. r. 138, 987 C. 1904 [1] 1439).
- 39) polym. Aethylester d. β -Phenylakrylsäure (B. 35, 4152 C. 1903 [1] 159).
- $C_{11}H_{12}O_3$ *1) 5-Oxy-2,4-Diacetyl-1-Methylbenzol. Sm. 106° (B. 36, 2162 C. 1903 [2] 370).
- 63) 3,4-Methylenäther-5-Methyläther d. 3,4,5-Trioxy-1-Allylbenzol (Myristicin). Sd. 149,5°₁₅ (B. 36, 3446 C. 1903 [2] 1176).
- 64) 3,4-Methylenäther-5-Methyläther d. 3,4,5-Trioxy-1-Propenylbenzol (Isomyristicin). Sm. 44—45° (30,2°); Sd. 142—149°₁₀ (B. 23, 1806; B. 36, 3447 C. 1903 [2] 1176; B. 36, 3454 C. 1903 [2] 1177). — III, 638; *III, 468.
- 65) β -Oxy- β -Phenylakrylälthyläthersäure. Sm. 160° u. Zers. (C. r. 138, 287 C. 1904 [1] 719).
- 66) Methylester d. β -Oxy- β -Phenylakrylmethyläthersäure. Sd. 154 bis 155°₁₄ (C. r. 137, 261 C. 1903 [2] 664; C. r. 138, 208 C. 1904 [1] 659; B. [3] 31, 515 C. 1904 [1] 1602).
- 67) Acetat d. α -Oxy- β -Keto- α -Phenylpropan. Sd. 165—170°₄₀ (G. 33 [2] 261 C. 1904 [1] 24).
- 68) Acetat d. β -Oxyäthylphenylketon. Sm. 54° (B. 36, 1354 C. 1903 [1] 1299).

- $C_{11}H_{12}O_4$ *1) 3,5-Diacetyl-2,6-Dimethyl-1,4-Pyron. Sm. 124°; Sd. oberh. 300° (Soc. 85, 977 C. 1904 [2] 711).
 *15) isom. β -[2,4-Dioxyphenyl]akryl-2,4-Dimethyläthersäure. Sm. 184° (C. 1903 [1] 580; Soc. 85, 162 C. 1904 [1] 724).
 *17) β -[3,4-Dioxyphenyl]akryl-3,4-Dimethyläthersäure (C. 1903 [1] 580; Soc. 85, 163 C. 1904 [1] 724).
 *24) α -Phenylpropan- γ ,2-Dicarbonsäure. Sm. 122° (138°) (Soc. 83, 249 C. 1903 [1] 586, 882).
 *47) 2-Aethylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 107—108° (M. 24, 949 C. 1904 [1] 916).
 64) 3,5-Dioxy-2,4-Diacetyl-1-Methylbenzol. Sm. 95° (G. 34 [2] 977 C. 1904 [2] 711).
 65) β -Methyläther-3,4-Methylenäther d. α -Keto- β -Oxy- α -[3,4-Dioxyphenyl]propen. Sd. 173—174° (i. V.) (A. 332, 334 C. 1904 [2] 652).
 66) 4-Oxy-3,5-Diacetyl-5-Methyl-2-Methylen-1,2-Pyran. Sm. 75° (G. 34 [2] 979 C. 1904 [2] 711).
 67) 1,3,5-Trimethylbenzol-2,4-Dicarbonsäure. Sm. 283° u. Zers. — *II, 1072.
 68) 5-Oxy-1-Methylbenzyläthyläther-2-Ketocarbonsäure + H₂O. Sm. 78° (C. 1904 [1] 1597).
 69) 3-Oxy-1-Methylbenzyläthyläther-4-Ketocarbonsäure. Sm. 144° (C. 1904 [1] 1597).
 70) 1-Methylen-2-Methyl-R-Penten-5-Carbonsäure-4-[Aethyl- β -Carbonsäure]. Sm. 187° (B. 36, 951 C. 1903 [1] 1022).
 71) Porinsäure + H₂O. Sm. 218° (wasserfrei) (J. pr. [2] 68, 64 C. 1903 [2] 513).
 72) α -[6-Aldehydo-3-Methylphenoxy]propionsäure. Sm. 114—115° (A. 312, 287). — *III, 65.
 73) α -Methylester d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 102° (M. 24, 425 C. 1903 [2] 622).
 74) β -Methylester d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 92° (M. 24, 425 C. 1903 [2] 623).
 75) Dimethylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 39—42°; Sd. 173—176°₁₃ (M. 24, 939 C. 1904 [1] 515).
 76) 1-Aethylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 111—113° (M. 24, 950 C. 1904 [1] 916).
 77) Monobenzylester d. Bernsteinsäure. Sm. 59° (B. 35, 4077 C. 1903 [1] 74).
 78) Verbindung (aus Ceropten). Sm. 52° (C. 1904 [1] 40).
 $C_{11}H_{12}O_5$ *3) β -[4-Oxy-3,5-Dimethoxyphenyl]akrylsäure. Sm. 192° (B. 36, 1032 C. 1903 [1] 1223).
 43) 1,3-Diacetat d. 1,2,3-Trioxybenzol-2-Methyläther. Sm. 51—54° (M. 25, 814 C. 1904 [2] 1119).
 44) 2,3-Diacetat d. 1,2,3-Trioxybenzol-1-Methyläther. Sm. 91—93° (M. 25, 508 C. 1904 [2] 1118; M. 25, 812 C. 1904 [2] 1119).
 $C_{11}H_{12}O_6$ *10) Diäthylester d. Chelidonsäure. 2 + HgCl₂, 4 + 3 HgCl₂, + C₂H₅ONa (B. 37, 3737 C. 1904 [2] 1537; B. 37, 3751 C. 1904 [2] 1539).
 16) Carminsäure. K, Ba (Soc. 83, 138 1903 [1] 89, 466).
 17) Homomaticosäure. Sm. 96°. Ba + H₂O (B. 35, 4356 C. 1903 [1] 331).
 18) Oxysäure (aus Phenylisoparakonsäure). Ba (A. 330, 331 C. 1904 [1] 928).
 $C_{11}H_{12}O_7$ *8) 3,4-Dioxybenzoldimethyläther-1-Carbonsäure-2-Oxyessigsäure. Sm. 215—217° (B. 36, 2319 C. 1903 [2] 443; M. 25, 891 C. 1904 [2] 1313).
 $C_{11}H_{12}N_2$ *2) 3,4-Dimethyl-1-Phenylpyrazol. Sd. 277—278° (A. 331, 240 C. 1904 [1] 1221).
 *7) 6-Methyl-1-Phenyl-1,4-Dihydro-1,2-Diazin. Sm. 196—197° (B. 36, 1934 Ann. C. 1903 [2] 189).
 $C_{11}H_{12}N_4$ 6) Nitril d. 2-Methyl-1,4-Phenylendi[Amidoessigsäure]. Sm. 100—103° (D. R. P. 145062 C. 1903 [2] 1037).
 $C_{11}H_{12}Br_4$ 1) 2,3,5,6-Tetrabrom-4-Isopropyl-1-Aethylbenzol. Sm. 246° (B. 36, 1640 C. 1903 [2] 27).
 $C_{11}H_{13}N$ *28) 1,2,5-Trimethylindol. Sm. 56—57° (D. R. P. 137117 C. 1903 [1] 110).
 29) polym. 6-Methylenamido-1,2,3,4-Tetrahydronaphthalin. Sm. 164° u. Zers. (Soc. 85, 734 C. 1904 [2] 116, 339).

- $C_{11}H_{13}N_3$ 10) 3-Imido-2,5-Dimethyl-1-Phenyl-2,3-Dihydropyrazol. Pikrat (*B.* 36, 3290 *C.* 1903 [2] 1191).
- 11) 3-Imido-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Salze siehe (*B.* 36, 3282 *C.* 1903 [2] 1189).
- $C_{11}H_{14}O$ *5) Methyläther d. α -[4-Oxyphenyl]- α -Buten. Sd. 135—136°₂₆ (*B.* 37, 3998 *C.* 1904 [2] 1641).
- *6) Methyläther d. α -[4-Oxyphenyl]- β -Methylpropen. Sm. 8—9°; Sd. 123°₁₇ (*B.* 37, 4000 *C.* 1904 [2] 1641).
- *9) Aethyläther d. 4-Oxy-1-Allylbenzol. Sd. 224°₇₅₀ (D.R.P. 154654 *C.* 1904 [2] 1355).
- *20) Methyl-2,4,5-Trimethylphenylketon. + H_2SO_4 (*R.* 21, 355 *C.* 1903 [1] 151).
- *29) Aethyläther d. α -[4-Oxyphenyl]propen. Sm. 61°; Sd. 241°₇₅₀ (D.R.P. 154654 *C.* 1904 [2] 1355).
- 34) γ -[2-Oxyphenyl]- β -Penten. Sd. 215—216°₇₅₃ u. Zers. (*Bl.* [3] 29, 353 *C.* 1903 [1] 1222).
- 35) Methyläther d. α -[3-Oxyphenyl]- α -Buten. Sd. 128—129°₁₆ (*B.* 37, 3999 *C.* 1904 [2] 1641).
- 36) Methyläther d. β -[4-Oxyphenyl]- β -Buten. Sd. 233—236°₇₆₀ (*B.* 37, 3997 *C.* 1904 [2] 1641).
- 37) Methyläther d. α -[4-Oxy-2-Methylphenyl]propen. Sd. 119—121°₁₃ (*B.* 37, 3994 *C.* 1904 [2] 1640).
- 38) Methyläther d. α -[4-Oxy-3-Methylphenyl]propen. Sd. 121—123°₁₄ (*B.* 37, 3992 *C.* 1904 [2] 1640).
- 39) Methyläther d. α -[6-Oxy-3-Methylphenyl]propen. Sd. 122—124°₁₇ (*B.* 37, 3995 *C.* 1904 [2] 1640).
- 40) Aethyläther d. α -[2-Oxyphenyl]propen. Sd. 230—231°₇₅₇ (*B.* 37, 3987 *C.* 1904 [2] 1639).
- 41) Aethyläther d. α -[3-Oxyphenyl]propen. Sd. 124—125°₁₆ (*B.* 37, 3990 *C.* 1904 [2] 1639).
- 42) Propyläther d. β -Oxy- α -Phenyläthen. Sd. 238—241° (*C. r.* 138, 288 *C.* 1904 [1] 720; *Bl.* [3] 31, 528 *C.* 1904 [1] 1552).
- 43) Aldehyd d. 1-Pseudobutyl-3-Carbonsäure (*B.* 32, 2533). — *III, 44.
- $C_{11}H_{14}O_2$ *2) Dimethyläther d. 3,4-Dioxy-1-Allylbenzol (*J. pr.* [2] 68, 246 *C.* 1903 [2] 1063).
- *4) Dimethyläther d. 3,4-Dioxy-1-Propenylbenzol. Pikrat (*C.* 1904 [2] 954).
- *26) 1-Pseudobutylbenzol-4-Carbonsäure. Sm. 164° (*Bl.* [3] 31, 969 *C.* 1904 [2] 1112).
- *55) Isobutyl-4-Oxyphenylketon. Sm. 97—98° (*B.* 36, 3891 *C.* 1904 [1] 93).
- *56) Propyl-6-Oxy-3-Methylphenylketon. Sm. 34° (*B.* 36, 3892 *C.* 1904 [1] 93).
- 67) Dimethyläther d. α -[2,5-Dioxyphenyl]propen. Sd. 132—135°₁₄ (*B.* 36, 858 *C.* 1903 [1] 1084).
- 68) Dimethyläther d. β -[2,5-Dioxyphenyl]propen. Sd. 124—125°₁₅ (*B.* 37, 3997 *C.* 1904 [2] 1641).
- 69) Dimethyläther d. β -[3,4-Dioxyphenyl]propen. Sd. 253—254° (*C. r.* 139, 140 *C.* 1904 [2] 593).
- 70) Methyläther d. γ -Keto- α -[4-Oxyphenyl]butan. Sd. 160°₂₂ (*A.* 330, 236 *C.* 1904 [1] 945).
- 71) Methyläther d. Aethyl-4-Oxy-2-Methylphenylketon. Sm. 43°; Sd. 149—150°₁₄ (*B.* 37, 3993 *C.* 1904 [2] 1640).
- 72) Methyläther d. Aethyl-4-Oxy-3-Methylphenylketon. Sm. 41°; Sd. 169—171°₂₅ (*B.* 37, 3991 *C.* 1904 [2] 1640).
- 73) Methyläther d. Aethyl-6-Oxy-3-Methylphenylketon. Sd. 149—151°₁₇ (*B.* 37, 3994 *C.* 1904 [2] 1640).
- 74) Aethyläther d. Methyl-4-Oxy-2-Methylphenylketon. Sm. 22°; Sd. 195°₅₁ (*C.* 1904 [1] 1597).
- 75) Aethyläther d. Methyl-2-Oxy-4-Methylphenylketon. Sm. 71°; Sd. 140°₁₀ (*C.* 1904 [1] 1597).
- 76) γ -Phenylvaleriansäure. Sm. 13°; Sd. 210°₈₅, Ca, Al (*C.* 1904 [1] 1416).
- 77) Aethylester d. 3-Methylnorcaradiäncarbonsäure. Sd. 122—126°₁₅ (*B.* 36, 3514 *C.* 1903 [2] 1275).

- $C_{11}H_{14}O_2$ 78) Acetat d. 2-Oxymethyl-1,4-Dimethylbenzol. Sd. 242—243° (*G.* 32 [2] 485 *C.* 1903 [1] 831).
- $C_{11}H_{14}O_3$ 79) 3,4-Methylenäther-5-Methyläther d. 3,4,5-Trioxy-1-Propylbenzol (Dihydromyristicin). Sd. 149—150°₁₇ (*B.* 36, 3449 *C.* 1903 [2] 1176).
- 80) 1-Keto-2,4-Diacetyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 75° (*B.* 36, 2159 *C.* 1903 [2] 370).
- 81) Dimethyläther d. α -Keto- β -Oxy- α -[4-Oxyphenyl]propan. Sd. 160° (*A.* 332, 329 *C.* 1904 [2] 651).
- 82) Dimethyläther d. β -Keto- α -[3,4-Dioxyphenyl]propan. Sd. 195 bis 200°₁₁ (*A.* 332, 336 *C.* 1904 [2] 652).
- 83) δ -Phenyl- β -Methylbutan- β γ -Ozonid. Fl. (*B.* 37, 845 *C.* 1904 [1] 1144).
- 84) β -Oxy- β -Phenylvaleriansäure. Sm. 118—121°. Ca, Ba (*C.* 1904 [1] 1343).
- 85) Aldehyd d. 3,4-Dioxybenzol-3-Isobutyläther-1-Carbonsäure. Sm. 94° (D.R.P. 85196). — *III, 74.
- 86) Äthylester d. α -Oxy- β -Phenylpropionsäure. Sd. 126°₁₅ (*B.* 37, 1268 *C.* 1904 [1] 1334).
- $C_{11}H_{14}O_4$ *11) 2,4-Dioxybenzoldiäthyläther-1-Carbonsäure. Sm. 99—102° (*M.* 24, 893 *C.* 1904 [1] 512).
- *23) Äthylester d. 2,4-Dioxybenzol-4-Äthyläther-1-Carbonsäure. Sm. 53—54° (*M.* 24, 890 *C.* 1904 [1] 512).
- 33) Isobutyl-2,3,4-Trioxyphenylketon. Sm. 108° (D.R.P. 49149, 50451). — *III, 122.
- 34) Propyl-2,4,6-Trioxy-3-Methylphenylketon. Sm. 161—162° (*A.* 329, 318 *C.* 1904 [1] 799).
- 35) Trimethyläther d. 2,3,4-Trioxyphenylketon. Sd. 174°₁₉ (*B.* 36, 2191 *C.* 1903 [2] 384).
- 36) β β -Dioxy- β -Phenylpropiondimethyläthersäure. Zers. bei 95°. Na + 5H₂O (*C. r.* 137, 261 *C.* 1903 [2] 664).
- 37) Methylster d. 3,5-Dioxy-1-Methylbenzoldimethyläther-2-Carbonsäure. Sm. 80—84° (*M.* 24, 896 *C.* 1904 [1] 512).
- 38) Methylster d. 3,5-Dioxy-1-Methylbenzoldimethyläther-4-Carbonsäure. Sm. 31—37° (*M.* 24, 900 *C.* 1904 [1] 513).
- 39) Methylster d. Säure C₁₀H₁₂O₄. Sm. 115—117° (*M.* 24, 913 *C.* 1904 [1] 513).
- 40) Äthylester d. α -Oxy- α -[4-Methoxyphenyl]essigsäure. Sm. 47 bis 48° (*B.* 37, 3173 *C.* 1904 [2] 1303).
- 41) Äthylester d. 2,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sd. 170°₁₃ (*C.* 1903 [1] 580; *Soc.* 85, 160 *C.* 1904 [1] 724).
- 42) 2-Oxybenzoat d. $\alpha\alpha$ -Dioxyäthan- α -Äthyläther (Äthoxyäthyliden-salicylat). Fl. (D.R.P. 146849 *C.* 1903 [2] 1353).
- $C_{11}H_{14}O_5$ *4) Methylster d. 3,4,5-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 80—82° (*M.* 25, 511 *C.* 1904 [2] 1118).
- *13) Methylster d. 2,4,6-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 67—70° (*M.* 24, 874 *C.* 1904 [1] 368).
- 14) 2,4,6-Trioxy-1,3-Dimethylbenzol-2,4-Dimethyläther-5-Carbonsäure. Sm. 125° (*M.* 24, 114 *C.* 1903 [1] 967).
- 15) Äthylester d. 5-Oxy-1,4-Pyronisopropyläther-2-Carbonsäure (Ä. d. Komenisopropyläthersäure). Sm. 123° (*G.* 33 [2] 266 *C.* 1904 [1] 45).
- 16) Diäthylester d. γ -Keto- $\alpha\delta$ -Pentadien- $\alpha\epsilon$ -Dicarbonsäure. Sm. 49,5 bis 50° (*B.* 37, 3296 *C.* 1904 [2] 1041).
- $C_{11}H_{14}O_7$ *1) Diäthylester d. Acetondioxalsäure. Sm. 104° (*B.* 37, 3734 *C.* 1904 [2] 1537).
- 3) Diäthylester d. $\alpha\epsilon$ -Dioxy- γ -Keto- $\alpha\delta$ -Pentadien- $\alpha\epsilon$ -Dicarbonsäure. Sm. 97,5—98,5°. Na₂, Ba (*B.* 37, 3735 *C.* 1904 [2] 1537).
- $C_{11}H_{14}Br_2$ *3) $\alpha\beta$ -Dibromisoamylbenzol. Sm. 128° (*B.* 37, 1088 *C.* 1904 [1] 1260; *B.* 37, 2316 *C.* 1904 [2] 217).
- *8) 4,6-Dibrom-2-Äthyl-1,3,5-Trimethylbenzol. Sm. 59—60° (*B.* 37, 1718 *C.* 1904 [1] 1489).
- *10) $\beta\gamma$ -Dibromisoamylbenzol. Sm. 66° (*B.* 37, 2315 *C.* 1904 [2] 217).
- 11) $\gamma\delta$ -Dibrom- γ -Phenyl- β -Methylbutan. Fl. (*B.* 36, 3691 *C.* 1903 [2] 1426).

- $C_{11}H_4Br_2$ 12) $\alpha\beta$ -Dibrom- α -[2,5-Dimethylphenyl]propan. Sd. 163—166°₁₇ (B. 36, 773 C. 1903 [1] 834).
 13) 4-[$\alpha\beta$ -Dibromopropyl]-1,3-Dimethylbenzol. Sd. 151—153° (B. 36, 2236 C. 1903 [2] 437).
- $C_{11}H_{15}N$ *7) 1-Phenylhexahydropyridin. Sd. 257—258°₇₅₂. (2HCl, PtCl₄ + 2H₂O) (B. 37, 3212 C. 1904 [2] 1238).
 *12) 1-Aethyl-1,2,3,4-Tetrahydrochinolin. Pikrat (B. 36, 2572 C. 1903 [2] 727).
 33) α -[4-Dimethylamidophenyl]propen. Sm. 48° (B. 37, 1742 C. 1904 [1] 1599).
 34) Methylallyl-2-Methylphenylamin. Sd. 215—220°. Pikrat (B. 37, 3897 C. 1904 [2] 1612).
 35) 4-Methylallylamido-1-Methylbenzol (Methylallyl-4-Methylphenylamin). Sd. 230—232°. Pikrat (B. 37, 2719 C. 1904 [2] 592).
 36) 6-Methylamido-1,2,3,4-Tetrahydronaphtalin. Sd. 267,5°₂₁₀. HCl, HNO₃ (Soc. 85, 735 C. 1904 [2] 117, 339).
 37) 1,8-Dimethyl-1,2,3,4-Tetrahydrochinolin. Sd. 238—240°. (2HCl, PtCl₄). Pikrat (B. 37, 22 C. 1904 [1] 522).
 38) α -Cytisolidin. Fl. (2HCl, PtCl₄) (B. 37, 20 C. 1904 [1] 522).
 39) β -Cytisolidin. (2HCl, PtCl₄) (B. 37, 21 C. 1904 [1] 522).
- $C_{11}H_{15}Cl$ 6) γ -Chlor- γ -Phenylpentan. Fl. (B. 36, 3692 C. 1903 [2] 1426).
 7) γ -Chlor- γ -Phenyl- β -Methylbutan. Fl. (B. 36, 3691 C. 1903 [2] 1426).
- $C_{11}H_{16}O$ *3) 4-Oxy-1-tert. Amylbenzol (A. 327, 207 C. 1903 [1] 1407; A. 327, 219 C. 1903 [1] 1408).
 *25) Isoamyläther d. Oxybenzol. Sd. 215—220° (B. 36, 2062 C. 1903 [2] 357).
 *31) δ -Oxy- δ -Phenyl- β -Methylbutan. Sd. 126°₂₁ (B. 37, 2316 C. 1904 [2] 217).
 33) γ -Oxy- γ -Phenylpentan. Sd. 125—127°₁₀ (223—224°₇₈₈). Mg + (C₂H₅)₂O (C. r. 137, 758 C. 1903 [2] 1415; B. 36, 3692 C. 1903 [2] 1426; C. r. 138, 154 C. 1904 [1] 577).
 34) β -Oxy- α -Phenyl- β -Methylbutan. Sd. 235—238° u. Zers. (C. 1904 [1] 1496).
 35) γ -Oxy- γ -Phenyl- β -Methylbutan. Sd. 196—198°₇₈₀ (B. 36, 3691 C. 1903 [2] 1426).
 36) β -Oxy- δ -Phenyl- β -Methylbutan. Sd. 121°₁₃ (B. 37, 2314 C. 1904 [2] 217).
 37) Methyläther d. α -[3-Oxyphenyl]butan. Sd. 115—116°₁₉ (B. 37, 4000 C. 1904 [2] 1641).
 38) Methyläther d. α -[4-Oxyphenyl]butan. Sd. 120°₁₉ (B. 37, 3999 C. 1904 [2] 1641).
 39) Methyläther d. β -[4-Oxyphenyl]butan. Sd. 106—108°₁₆ (B. 37, 3997 C. 1904 [2] 1641).
 40) Methyläther d. 4-Oxy-3-Propyl-1-Methylbenzol. Sd. 216—218° (B. 37, 3995 C. 1904 [2] 1640).
 41) Methyläther d. 6-Oxy-3-Propyl-1-Methylbenzol. Sd. 222° (B. 37, 3993 C. 1904 [2] 1640).
 42) Aethyläther d. 2-Oxy-1-Propylbenzol. Sd. 213°₇₅₄ (B. 37, 3989 C. 1904 [2] 1639).
 43) Aethyläther d. 3-Oxy-1-Propylbenzol. Sd. 220—224°₇₅₅ (B. 37, 3990 C. 1904 [2] 1639).
 44) Aethyläther d. 4-Oxy-1-Propylbenzol. Sd. 108—110°₁₃ (B. 37, 3990 C. 1904 [2] 1639).
 45) Methylenecampher. Sm. 30—35°; Sd. 218° (C. r. 136, 752 C. 1903 [1] 971; C. r. 136, 1223 C. 1903 [2] 116).
- $C_{11}H_{16}O_2$ *6) Dimethyläther d. 3,4-Dioxy-1-Propylbenzol. Sd. 246—247° (B. 36, 860 C. 1903 [1] 1085).
 *9) Diäthyläther d. Dioxymethylbenzol. Sd. 220—222° (B. 37, 188 C. 1904 [1] 638).
 *19) Oxymethylenecampher. Sm. 79°; Sd. 105°₁₁. Na, Ca, Cu (C. r. 136, 1223 C. 1903 [2] 116; B. 36, 2635 C. 1903 [2] 626; B. 36, 4287 C. 1904 [1] 458; B. 37, 762 C. 1904 [1] 1085; B. 37, 2070 C. 1904 [2] 17; B. 37, 2180 C. 1904 [2] 223).

- C₁₁H₁₆O₂** *24) Aethylester d. α -Camphylsäure. *Sd.* 132°₇₀ (*Soc.* 83, 850 *C.* 1903 [2] 572).
- 33) γ -Oxy- γ -[2-Oxyphenyl]pentan. *Sm.* 57° (*Bl.* [3] 29, 351 *C.* 1903 [1] 1222).
- 34) 3-Methyläther d. α -Oxy- α -[3-Oxyphenyl]butan. *Sd.* 151—152°₁₅ (*B.* 37, 3999 *C.* 1904 [2] 1641).
- 35) 5-Methyläther d. 5-Oxy-2-[α -Oxypropyl]-1-Methylbenzol. *Sd.* 149 bis 151°₁₃ (*B.* 37, 3993 *C.* 1904 [2] 1640).
- 36) 4-Methyläther d. 4-Oxy-3-[α -Oxypropyl]-1-Methylbenzol. *Sd.* 153 bis 154°₃₂ (*B.* 37, 3995 *C.* 1904 [2] 1640).
- 37) 6-Methyläther d. 6-Oxy-3-[α -Oxypropyl]-1-Methylbenzol. *Sd.* 157°₂₀ (*B.* 37, 3991 *C.* 1904 [2] 1640).
- 38) Dimethyläther d. 2,5-Dioxy-1-Propylbenzol. *Sd.* 240°₇₆₀ (*B.* 36, 857 *C.* 1903 [1] 1084).
- 39) Dimethyläther d. 2,5-Dioxy-1-Isopropylbenzol. *Sd.* 114—116°₁₅ (*B.* 37, 3997 *C.* 1904 [2] 1641).
- 40) Dimethyläther d. 3,5-Dioxy-1-Propylbenzol. *Sd.* 136—137°₁₆ (*B.* 36, 3450 *C.* 1903 [2] 1176).
- 41) 2-Aethyläther d. 2-Oxy-1-[α -Oxypropyl]benzol. *Sd.* 129—130°₁₅ (*B.* 37, 3988 *C.* 1904 [2] 1639).
- 42) Oxymethylenisothujon. *Sd.* 128—132°₁₃ (*A.* 329, 126 *C.* 1903 [2] 1323).
- 43) 2,4-Diketo-1,1,3,3,5-Pentamethyl-1,2,3,4-Tetrahydrobenzol. *Sm.* 59—62° (*M.* 24, 911 *C.* 1904 [1] 513).
- 44) β -Metacopaivasäure (oder C₁₈H₂₄O₃). *Sm.* 89—90° (*Ar.* 239, 555). — *III, 419.
- C₁₁H₁₆O₃** *2) 2,5-Dimethyläther d. 2,3,5-Trioxy-1-Propylbenzol. *Sd.* 149,5 bis 151°₁₂ (*B.* 36, 1718 *C.* 1903 [2] 114).
- *6) Camphocarbonsäure. *Sm.* 126—127° (129°) (*B.* 36, 208 *C.* 1903 [1] 515; *B.* 36, 669 *C.* 1903 [1] 771; *B.* 36, 1305 *C.* 1903 [1] 1224; *B.* 36, 2622 *C.* 1903 [2] 624; *B.* 36, 4289 *C.* 1904 [1] 456; *B.* 37, 2512 *C.* 1904 [2] 332).
- 18) 2,5-Dimethyläther d. 2,5-Dioxy-1-[α -Oxyisopropyl]benzol. *Sd.* 138—141°₁₆ (*B.* 37, 3996 *C.* 1904 [2] 1641).
- 19) Trimethyläther d. 2,4,6-Trioxy-1,3-Dimethylbenzol. *Sm.* 61° (*M.* 24, 108 *C.* 1903 [1] 967).
- 20) 3-Aethyläther d. 2,3,5-Trioxy-1-Propylbenzol. *Sm.* 143° (*B.* 36, 1720 *C.* 1903 [2] 114).
- 21) Säure (aus Carvon). *Sm.* 96—97° (*C.* 1904 [1] 1082).
- 22) Säure (aus Carvon). *Sm.* 137° (*C.* 1904 [1] 1082).
- 23) Methylester d. 3-Keto-1-Methyl-2-Allyl-R-Pentamethylen-2-Carbonsäure. *Sd.* 114—115°₁₅ (*C. r.* 138, 210 *C.* 1904 [1] 663).
- C₁₁H₁₆O₄** *2) 3,4-Dimethyläther d. i-3,4-Dioxy-1-[$\alpha\beta$ -Dioxypropyl]benzol. *Sm.* 120—121° (*B.* 36, 3582 *C.* 1903 [2] 1363).
- *3) 3,4-Dimethyläther d. isom. i-3,4-Dioxy-1-[$\alpha\beta$ -Dioxypropyl]benzol. *Sm.* 88—89° (*B.* 36, 3582 *C.* 1903 [2] 1363).
- *14) 1-Oxy-5-Keto-2,4-Diacetyl-1-Methylhexahydrobenzol (Methylenbis-acetylaceton). *Sm.* 87—88° (*B.* 36, 2155 *C.* 1903 [2] 370; *A.* 332, 21 *Anm.* *C.* 1904 [1] 1565).
- C₁₁H₁₆O₅** *2) Anhydrid d. γ -Acetoxyl- $\beta\delta$ -Dimethylpentan- $\beta\delta$ -Dicarbonsäure. *Sm.* 89—90° (*Bl.* [3] 31, 118 *C.* 1904 [1] 643).
- C₁₁H₁₆O₆** 16) Acetoxylidioxydihydro- α -Camphylsäure. *Sm.* 185° u. Zers. (*Soc.* 83, 857 *C.* 1903 [2] 572).
- C₁₁H₁₆N₂** 13) Campherpyrazol. *Sm.* 149—150°. (2HCl, PtCl₄) (*A.* 329, 130 *C.* 1903 [2] 1323).
- 14) Dihydrocarvonpyrazol. *Fl.* (2HCl, PtCl₄) (*A.* 329, 124 *C.* 1903 [2] 1323).
- 15) Thujonpyrazol. *Fl.* (2HCl, PtCl₄) (*A.* 329, 125 *C.* 1903 [2] 1323).
- 16) Isothujonpyrazol. *Sm.* 89—90°. (2HCl, PtCl₄) (*A.* 329, 126 *C.* 1903 [2] 1323).
- C₁₁H₁₇N** *7) Methylisobutylamidobenzol (Methylisobutylphenylamin). *Sd.* 227 bis 228° (*Soc.* 83, 1408 *C.* 1904 [1] 438).
- *13) 5-Dimethylamido-1,2,4-Trimethylbenzol. *Sd.* 219°. (2HCl, PtCl₄) (*Soc.* 85, 236 *C.* 1904 [1] 1006).

- $C_{11}H_{17}N$ *20) Isobutylamidomethylbenzol (Isobutylbenzylamin). HJ (*Soc.* 83, 1414 C. 1904 [1] 438).
- *28) Aethylisopropylamidobenzol. Sd. 220°. (HCl, 4 HgCl₂), (2 HCl, PtCl₄) (*J. pr.* [2] 66, 473 C. 1903 [1] 561).
- 33) 4-Amido-1-tert. Amylbenzol. Sd. 140—142°₁₃ (A. 327, 222 C. 1903 [1] 1408).
- 34) Bornylisocyanid. Sm. 137° (*Soc.* 85, 1193 C. 1904 [2] 1125).
- $C_{11}H_{18}O$ 11) 4- β -Ketopropyl-1,1,5-Trimethyl-2,3-Dihydro-R-Penten (Methylcampholenon). Sd. 210—212° (*Bl.* [3] 31, 464 C. 1904 [1] 1516).
- 12) Vetriol. Sd. 174—176°₁₀ (D.R.P. 142416 C. 1903 [2] 229).
- $C_{11}H_{18}O_2$ *7) Methylester d. Pulegensäure. Sd. 114—115°₃₀ (A. 327, 126 C. 1903 [1] 1412).
- *15) Formiat d. Isoborneol. Sd. 103°₁₈ (C. r. 136, 239 C. 1903 [1] 584).
- 35) Oxymethylentetrahydrocarvon. Sd. 131—135°₁₈ (A. 329, 123 C. 1903 [2] 1322).
- 36) Oxymethylenthujamenthon. Sd. 109—115°₁₁ (A. 329, 127 C. 1903 [2] 1323).
- 37) Camphancarbonsäure. Sm. 69—71° (*B.* 35, 4417 C. 1903 [1] 330).
- 38) Methylester d. α -Nonin- α -Carbonsäure. Sd. 133—135°₂₁ (C. r. 136, 554 C. 1903 [1] 825).
- 39) Aethylester d. ζ -Methyl- α -Heptin- α -Carbonsäure. Sd. 135—137°₃₀ (C. r. 136, 554 C. 1903 [1] 825).
- 40) Aethylester d. 1,3-Dimethyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure. Sd. 89—91°₁₂ (D.R.P. 148206 C. 1904 [1] 485).
- 41) Propylester d. α -Heptin- α -Carbonsäure. Sd. 133—134°₁₇ (*Bl.* [3] 31, 508 C. 1904 [1] 1602).
- 42) Amylester d. α -Pentin- α -Carbonsäure. Sd. 127—128°₂₂ (C. r. 136, 553 C. 1903 [1] 824).
- 43) Formiat d. Campholenalkohol. Sd. 215—216° (C. r. 138, 280 C. 1904 [1] 725).
- 44) Formiat d. Geraniol. Sd. 104—105°₁₀₋₁₁ (D.R.P. 80711; *B.* 29, 907 Anm.). — III, 477; *III, 345.
- 45) Formiat d. Cyklogeraniol. Sd. 102—108°₂₀ (D.R.P. 138141 C. 1903 [1] 267).
- 46) Formiat d. Nerol. Sd. 119—121°₂₆ (*B.* 36, 267 C. 1903 [1] 585). — *III, 350.
- $C_{11}H_{18}O_3$ 15) Oxy- β -Campholytäthyläthersäure. Sd. 174—177°₃₆ (*Soc.* 83, 861 C. 1903 [2] 573).
- 16) Methylester d. 3-Keto-1-Methyl-2-Propyl-R-Pentamethylen-2-Carbonsäure. Sd. 138—140°₂₂ (C. r. 138, 210 C. 1904 [1] 663).
- 17) Aethylester d. ζ -Keto- β -Methyl- β -Hepten- γ -Carbonsäure. Sd. 127 bis 130°₁₄ (C. r. 136, 755 C. 1903 [1] 1019).
- 18) Aethylester d. 3-Keto-1-Methyl-2-Aethyl-R-Pentamethylen-2-Carbonsäure. Sd. 119—120°₁₈ (C. r. 138, 210 C. 1904 [1] 663).
- $C_{11}H_{18}O_4$ *4) β -Nonen- $\alpha\beta$ -Dicarbonsäure. Sm. 131° (A. 331, 110 C. 1904 [1] 931).
- *5) γ -Nonen- $\alpha\beta$ -Dicarbonsäure (Hexylatikonsäure). Sm. 79—79,5° (A. 331, 116 C. 1904 [1] 931).
- *33) Diäthylester d. γ -Methyl- α -Buten- $\alpha\gamma$ -Dicarbonsäure. Sd. 131°₁₄ (C. r. 136, 382 C. 1903 [1] 697).
- *34) Diäthylester d. γ -Methyl- α -Buten- $\beta\gamma$ -Dicarbonsäure. Sd. 126 bis 127°₂₀ (*Soc.* 83, 1389 C. 1904 [1] 435).
- 37) Maclayetin. Sm. 209—210° (*Ch. Z.* 20, 970). — *III, 444.
- 38) Dilakton (aus Hexylatikonsäure). Sm. 185—186° u. Zers. (A. 331, 122 C. 1904 [1] 932).
- 39) Methylester d. $\gamma\epsilon$ -Diketo- β -Methylokten- δ -Carbonsäure (M. d. Isobutyrylbutyrylessigsäure). Sd. 125°₁₈ Cu (*Bl.* [3] 27, 1094 C. 1903 [1] 226).
- 40) Methylester d. β -Isobutyroxy- α -Penten- α -Carbonsäure (M. d. O-Isobutyrylbutyrylessigsäure). Sd. 128°₁₈ (*Bl.* [3] 27, 1095 C. 1903 [1] 227).
- 41) Aethylester (aus d. Verb. $C_{11}H_{18}O_4Br$). Sd. 155°₁₀ (*Soc.* 77, 858; 79, 1341). — *III, 687.
- 42) Diacetat d. 3,4-Dioxy-1-Methylhexahydrobenzol. Sd. 157—158°₄₀ (C. 1904 [2] 220).

- $C_{11}H_{18}O_5$ 18) Säure (aus Hexylatikonsäure). Sm. 126—127°. $Ca + H_2O$, Ag_2 (A. 331, 118 C. 1904 [1] 931).
- 19) $\alpha\gamma$ -Lakton d. $\beta\gamma$ -Dioxynonan- $\alpha\beta$ -Dicarbonsäure. Sm. 103—104°. $Ca + 2\frac{1}{2}H_2O$, $Ba + H_2O$, Ag (A. 331, 112 C. 1904 [1] 931).
- 20) Aldehyd d. $\alpha\gamma$ -Diacetoxy- $\beta\beta$ -Dimethylbutan- δ -Carbonsäure. Fl. (M. 25, 1070 C. 1904 [2] 1599).
- 21) Dimethylester d. δ -Ketoheptan- $\alpha\eta$ -Dicarbonsäure. Sm. 30—31° (B. 37, 3819 C. 1904 [2] 1606).
- 22) Diäthylester d. γ -Keto- β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sd. 185 bis 190°₁₀₀ (Soc. 83, 12 C. 1903 [1] 76, 443).
- $C_{11}H_{18}O_6$ *3) γ -Acetoxy- $\beta\delta$ -Dimethylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 171° (158 bis 159°?) (Bl. [3] 31, 118 C. 1904 [1] 644).
- 20) Diäthylester d. β -Acetoxypropan- $\alpha\gamma$ -Dicarbonsäure. Sd. 153 bis 154°₁₁ (Bl. [3] 29, 1014 C. 1903 [2] 1315).
- $C_{11}H_{18}N_2$ 13) 2-[β -Diäthylamidoäthyl]pyridin. Sd. 115—116°₁₅. (2HCl, $PtCl_4$), (2HCl, $AuCl_3$), Pikrat (B. 36, 169 C. 1904 [1] 672).
- 14) Menthonpyrazol. Fl. (2HCl, $PtCl_4$) (A. 329, 123 C. 1903 [2] 1322).
- 15) Tetrahydrocarvonpyrazol. Fl. (2HCl, $PtCl_4$) (A. 329, 124 C. 1903 [2] 1323).
- 16) Thujamenthonpyrazol. Fl. (2HCl, $PtCl_4$) (A. 329, 128 C. 1903 [2] 1323).
- $C_{11}H_{19}N$ 3) Methylamidocamphen. Sd. 202°₇₅₆. (2HCl, $PtCl_4$), HJ (Soc. 85, 334 C. 1904 [1] 808, 1440).
- $C_{11}H_{19}N_3$ C 68,4 — H 9,8 — N 21,7 — M. G. 193.
- 1) 3,4,5-Triamido-1-tert. Amylbenzol. Sm. 149° (A. 327, 216 C. 1903 [1] 1408).
- $C_{11}H_{20}O$ 11) δ -Oxy- $\beta\zeta$ -Dimethyl- $\beta\zeta$ -Nonadien (α -Methylgeraniol). Sd. 112—113°₁₂ (D.R.P. 153120 C. 1904 [2] 624; D.R.P. 154656 C. 1904 [2] 1269).
- 12) Methyläther d. Tanacetylalkohol (M. d. Thujylalkohol) (B. 33, 3122). — *III, 351.
- 13) Isobutylhexahydrophenylketon. Sd. 114°₂₀ (C. r. 139, 344 C. 1904 [2] 704).
- 14) isom. 1-Methylmenthon. Sd. 96—97°₁₃ (C. r. 138, 1140 C. 1904 [2] 106; C. 1904 [2] 1046).
- $C_{11}H_{20}O_2$ *29) Lakton d. γ -Oxymethyl- $\beta\zeta$ -Dimethylheptan- δ -Carbonsäure (Am. 30, 232 C. 1903 [2] 933).
- 33) $\beta\gamma$ -Diketo- δ -Methyldekan. Sd. 94°₁₀ (Bl. [3] 31, 1176 C. 1904 [2] 1701).
- 34) 1-1-Methyl-4-Isopropylhexahydrobenzol-3-Carbonsäure (1-Menthancarbonsäure). Sm. 65; Sd. 167°₂₁ (B. 35, 4417 C. 1903 [1] 330).
- 35) Acetat d. δ -Oxy- $\delta\zeta$ -Dimethyl- α -Hepten (C. 1904 [2] 185).
- 36) Acetat d. 2-Oxy-1-Methyl-3-Isopropyl- β -Pentamethylen. Sd. 92 bis 94°₁₄ (B. 37, 237 C. 1904 [1] 726).
- $C_{11}H_{20}O_3$ *7) Aethylester d. ζ -Keto- β -Methylheptan- ϵ -Carbonsäure. Sd. 114 bis 115°₁₂ (Bl. [3] 31, 759 C. 1904 [2] 309).
- 18) β -Oxy- α -Heptenpropyläther- α -Carbonsäure. Sm. 58° (C. r. 138, 287 C. 1904 [1] 719).
- 19) Methylhester d. β -Oxy- α -Oktenmethyläther- α -Carbonsäure. Sd. 245 bis 248° (C. r. 138, 208 C. 1904 [1] 659; Bl. [3] 31, 514 C. 1904 [1] 1602).
- 20) Aethylester d. 5-Oxy-1,3-Dimethylhexahydrobenzol-2-Carbonsäure. Sd. 144—146°₁₈ (D.R.P. 148207 C. 1904 [1] 486).
- 21) Aethylester d. β -Ketooktan- α -Carbonsäure. Sd. 132—133°₁₃ (C. r. 136, 755 C. 1903 [1] 1019).
- 22) Aethylester d. γ -Ketooktan- β -Carbonsäure. Sd. 128—129°₁₁ (Bl. [3] 31, 596 C. 1904 [2] 26).
- 23) Aethylester d. ϵ -Ketooktan- δ -Carbonsäure. Sd. 112—113°₁₀ (Bl. [3] 31, 594 C. 1904 [2] 26).
- 24) Aethylester d. δ -Keto- β -Methylheptan- γ -Carbonsäure. Sd. 111°₁₄ (Bl. [3] 31, 594 C. 1904 [2] 26).
- 25) Aethylester d. δ -Keto- β -Methylheptan- ϵ -Carbonsäure. Sd. 107 bis 108°₁₁ (Bl. [3] 31, 595 C. 1904 [2] 26).
- 26) Aethylester d. ϵ -Keto- β -Methylheptan- ζ -Carbonsäure. Sd. 117 bis 118°₁₃ (Bl. [3] 31, 599 C. 1904 [2] 26).

- $C_{11}H_{20}O_3$ 27) Isobutylester d. β -Ketoheptan- γ -Carbonsäure. Sd. 115—116°₁₃ (Bl. [3] 31, 1072 C. 1904 [2] 1457).
- $C_{11}H_{20}O_4$ *10) Diäthylester d. Pentan- $\gamma\gamma$ -Dicarbonsäure. Sd. 220—222° (C. r. 137, 715 C. 1903 [2] 1424).
- *12) Diäthylester d. β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Sd. 257°₇₄₆ (C. 1903 [2] 288).
- *30) Nonan- α -Dicarbonsäure. Sm. 124°. Ca (J. pr. [2] 67, 416 C. 1903 [1] 1404).
- 36) α -Acetoxyloktan- α -Carbonsäure. Sd. 171—174°₁₀ (u. Zers.) (C. r. 138, 698 C. 1904 [1] 1066).
- 37) cis- $\beta\zeta$ -Dimethylheptan- $\gamma\delta$ -Dicarbonsäure. Sm. 118—119°. Ca, Ag₂ (Am. 30, 236 C. 1903 [2] 934).
- 38) trans- $\beta\zeta$ -Dimethylheptan- $\gamma\delta$ -Dicarbonsäure. Sm. 142°. Ag₂ (Am. 30, 234 C. 1903 [2] 934).
- 39) Methyl ester d. Dioxidihdropulegensäure. Sm. 118—119° (A. 327, 127 C. 1903 [1] 1412).
- 40) Diäthylester d. cis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sd. 138°₂₄ (C. r. 136, 243 C. 1903 [1] 565).
- 41) Isobutylester d. l- α -Butyroxylpropionsäure. Sd. 110—112°₁₂₋₁₃ (C. 1903 [2] 1419).
- $C_{11}H_{20}O_5$ *6) Diäthylester d. γ -Oxypentan- $\beta\delta$ -Dicarbonsäure. Sd. 178—179°₅₃ (Bl. [3] 29, 1021 C. 1903 [2] 1315).
- *12) $\alpha\beta$ -Dibutyrat d. $\alpha\beta\gamma$ -Trioxypropan (C. 1903 [1] 134).
- 14) $\alpha\gamma$ -Dibutyrat d. $\alpha\beta\gamma$ -Trioxypropan (C. 1903 [1] 133).
- 15) $\alpha\beta$ -Diisobutyrat d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 269—272° (C. 1903 [1] 134).
- 16) $\alpha\gamma$ -Diisobutyrat d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 272—275° (C. 1903 [1] 134).
- $C_{11}H_{20}O_6$ 4) $\beta\gamma$ -Dioxynonan- $\alpha\beta$ -Dicarbonsäure. Ca, Ba (A. 331, 115 C. 1904 [1] 931).
- 5) Säure (aus Hexylatikonsäure). Ba (A. 331, 118 C. 1904 [1] 931).
- $C_{11}H_{20}Br_2$ 1) $\beta\gamma$ -Dibrom- β -Undeken. Sd. 137—139°₁₁ (B. 36, 2552 C. 1903 [2] 655).
- $C_{11}H_{21}Br$ 1) Bromundeken. Sd. 122—127°₂₀ (B. 36, 2549 C. 1903 [2] 654).
- $C_{11}H_{22}O$ *1) δ -Oxy- δ -Methyl- α -Deken (C. 1903 [2] 1415).
- *5) β -Ketoundeken. Sd. 231,5—232,5° (220°) (Soc. 81, 1588 C. 1903 [1] 29, 162; Bl. [3] 29, 675 C. 1903 [2] 487; B. 36, 2547 C. 1903 [2] 654; B. 36, 2552 C. 1903 [2] 655).
- *16) β -Keto- δ -Methyldekan. Sd. 115°₂₅ (Bl. [3] 31, 1158 C. 1904 [2] 1708).
- 17) α -Oxyisoamylhexahydrobenzol. Sd. 123°₂₀ (C. r. 139, 344 C. 1904 [2] 704).
- 18) l-Oxy-l-Isoamylhexahydrobenzol. Sd. 115°₂₀ (C. r. 138, 1322 C. 1904 [2] 219).
- 19) Diäthyläther d. Dioxymethylhexahydrobenzol. Sd. 109—110°₃₀ (C. r. 139, 344 C. 1904 [2] 704).
- 20) Aldehyd d. Dekan- α -Carbonsäure. Sm. —4°; Sd. 116—117°₁₆ (Bl. [3] 29, 1203 C. 1904 [1] 355; C. r. 138, 699 C. 1904 [1] 1066).
- $C_{11}H_{22}O_2$ *4) $\beta\beta\gamma\delta\delta$ -Pentamethylpentan- γ -Carbonsäure. Sm. 68° (C. 1903 [2] 129).
- *8) Äthylester d. Oktan- β -Carbonsäure. Sd. 99°₁₃ (Bl. [3] 31, 748 C. 1904 [2] 303).
- 27) Methylheptylcarbinolester d. Essigsäure (Acetat d. β -Oxynonan). Sd. 213—215° (Soc. 81, 1592 C. 1903 [1] 29, 162).
- $C_{11}H_{22}O_3$ 13) Äthylester d. α -Oxyoktan- α -Carbonsäure. Sm. 69—70° (C. r. 138, 698 C. 1904 [1] 1066).
- 14) Oktylester d. l- α -Oxypropionsäure. Sd. 126—128°₁₁ (C. 1903 [2] 1419).
- $C_{11}H_{22}O_4$ *1) Tetramethyläther d. α -Methylglykosid. Sd. 148—150°₁₃ (Soc. 83, 1030 C. 1903 [2] 346, 659; Soc. 83, 1039 C. 1903 [2] 659; Soc. 85, 1058 C. 1904 [2] 891).
- 2) Tetramethyläther d. β -Methylglykosid. Sm. 42—43° (Soc. 83, 1035 C. 1903 [2] 346, 659; Soc. 85, 1061 C. 1904 [2] 891).
- 3) Tetramethyläther d. α -Methylgalaktosid. Sd. 260—262° u. Zers. (Soc. 85, 1074 C. 1904 [2] 892).
- 4) Tetramethyläther d. β -Methylgalaktosid. Sm. 44—45° (Soc. 85, 1078 C. 1904 [2] 892).
- $C_{11}H_{22}Br_2$ *2) $\beta\gamma$ -Dibromundeken. Sd. 145—146° (B. 36, 2549 C. 1903 [2] 654).

- $C_{11}H_{23}N$ 11) Base (aus Dihydro- β -Dimethylamidocampholenmethylhydroxyd). Sd. 191 bis 192°. HCl (*C. r.* 136, 1462 *C.* 1903 [2] 287).
- $C_{11}H_{24}O$ *5) α -Oxyundekan. Sm. 11°; Sd. 146°₃₀ (*Bl.* [3] 29, 1207 *C.* 1904 [1] 355).
- *6) β -Oxyundekan. Sd. 231—233° (*Soc.* 81, 1593 *C.* 1903 [1] 29, 162; *B.* 36, 2548 *C.* 1903 [2] 654).
- $C_{11}H_{24}O_2$ 6) α -Äthyläther d. α - β -Dioxy- β -Methyloktan. Sd. 110—112°₁₄ (*C. r.* 138, 92 *C.* 1904 [1] 505).
- $C_{11}H_{24}O_4$ C 60,0 — H 10,9 — O 29,1 — M. G. 220.
- 1) Tetraäthyläther d. $\alpha\alpha\gamma\gamma$ -Tetraoxypropan + H_2O . Fl. (*B.* 36, 3659 *C.* 1903 [2] 1311).
- $C_{11}H_{25}N$ *1) β -Amidoundekan. Sd. 113—114°₂₆. (2HCl, PtCl₄), Pikrat (*B.* 36, 2554 *C.* 1903 [2] 655).
- 3) Propyldiisobutylamin. (2HCl, PtCl₄) (*C.* 1904 [1] 923).
- $C_{11}H_{26}N_2$ C 70,9 — H 14,0 — N 15,0 — M. G. 186.
- 1) $\alpha\gamma$ -Di[Diäthylamido]propan. Sd. 205—209°. (2HCl, 2HgCl₂) (*J. pr.* [2] 68, 355 *C.* 1903 [2] 1318).

— 11 III —

- $C_{11}H_9O_5Br_2$ *1) Dibrompurpurogallin. Sm. 204—206° (*Soc.* 83, 195 *C.* 1903 [1] 639).
- $C_{11}H_7ON$ *1) Naphtostyrl. Na (*B.* 35, 4220 *C.* 1903 [1] 165).
- $C_{11}H_7O_5N$ *3) 4-Nitro-1-Oxynaphtalin-2-Carbonsäure. Sm. 212° (*A.* 330, 103 *C.* 1904 [1] 1076).
- $C_{11}H_7O_5N_3$ 4) 4,5-Dinitro-1-Naphtylamid d. Ameisensäure. Sm. 244° (D.R.P. 145191 *C.* 1903 [2] 1098).
- $C_{11}H_7O_6N_3$ 3) Verbindung (aus 4-Nitro-3-Phenylisoxazol). K (*A.* 328, 250 *C.* 1903 [2] 1000).
- $C_{11}H_7NBr_4$ 1) Brom-2,4,6-Tribromphenylat d. Pyridin. Sm. 310—312° u. Zers. + Br₂ (*A.* 333, 336 *C.* 1904 [2] 1151).
- $C_{11}H_7N_3S$ 1) Nitril d. β -Benzylidenamidothiazol- β -Carbonsäure. Sm. 140—141° (*B.* 36, 3549 *C.* 1903 [2] 1379).
- $C_{11}H_7N_4Cl$ 2) 6-Chlor-2-Phenylpurin (*B.* 37, 2271 *C.* 1904 [2] 199).
- $C_{11}H_5ON_4$ 2) 6-Keto-2-Phenylpurin (*B.* 37, 2270 *C.* 1904 [2] 199).
- 3) 3-Oxy-2-Methyl-1,4,5,10-Naphttetrazin(Oxymethylpyrazinophenazin). Sm. oberh. 300° (*B.* 36, 4041 *C.* 1904 [1] 183).
- $C_{11}H_5O_2N_2$ 8) 3-Phenyl-1,2-Diazin-6-Carbonsäure. Sm. 130—131° (*B.* 36, 494 *C.* 1903 [1] 653).
- 9) Lakton d. 5-Oxy-3-Methyl-1-Phenylpyrazol-1²-Carbonsäure. Sm. 109°; Sd. 345° (*B.* 37, 2231 *C.* 1904 [2] 229).
- 10) 3-Cyanphenylimid d. Bernsteinsäure. Sm. 137—137,5° (*C.* 1904 [2] 103).
- $C_{11}H_5O_3N_2$ 13) Amid d. α -Cyan- β -[3,4-Dioxyphenyl]akryl-3,4-Methylenäther-säure. Sm. 209° (*C.* 1903 [2] 715).
- 14) 5-Nitro-1-Naphtylamid d. Ameisensäure. Sm. 199° (D.R.P. 145191 *C.* 1903 [2] 1098).
- $C_{11}H_5O_4N_2$ 23) α -Cyan- β -[3-Nitrophenyl]propen- γ -Carbonsäure (*C.* 1904 [1] 877).
- 24) Phenylamid d. β -Nitrofuran-2-Carbonsäure. Sm. 180° (*C. r.* 137, 520 *C.* 1903 [2] 1069).
- $C_{11}H_5O_6N_2$ *1) Methyläther d. 1,6-Dinitro-2-Oxynaphtalin. Sm. 204° (*A.* 335, 143 *C.* 1904 [2] 1135).
- $C_{11}H_5O_6S$ *3) 3-Oxynaphtalin-2-Carbonsäure-5-Sulfonsäure. Na (*C.* 1903 [2] 42).
- *4) 3-Oxynaphtalin-2-Carbonsäure-7-Sulfonsäure. Na (*C.* 1903 [2] 42).
- 5) 2-Oxynaphtalin-1-Carbonsäure-6-Sulfonsäure (D.R.P. 53343). — *II, 989.
- $C_{11}H_9ON$ *5) 2-Benzoylpyrrol. Sm. 77°; Sd. 320° (*B.* 37, 2797 *C.* 1904 [2] 532).
- 19) 1-Benzoylpyrrol. Sd. 276°₇₁₅ (*B.* 37, 2797 *C.* 1904 [2] 531).
- $C_{11}H_9O_2N$ *27) 2-Methylechinolin-3-Carbonsäure. Sm. 234° (*J. pr.* [2] 67, 508 *C.* 1903 [2] 252).
- *37) Chinolinbetain. HCl (*A.* 326, 323 *C.* 1903 [1] 1089).
- *38) Methylbetain d. Chinolin-4-Carbonsäure. Sm. 232° u. Zers. (*M.* 24, 201 *C.* 1903 [2] 48).
- *50) Phenylamid d. Furan-2-Carbonsäure. Sm. 123,5° (*B.* 37, 2954 *C.* 1904 [2] 993).

- $C_{11}H_9O_2N$ 62) 4-Formylamido-1-Oxynaphtalin. Sm. 168° (D.R.P. 149022 C. 1904 [1] 769).
- 63) 4-Methylchinolin-2-Carbonsäure + $1\frac{1}{2}H_2O$. Sm. 153—154°. HCl, (2 HCl, $PtCl_4$) (B. 37, 1327 C. 1904 [1] 1350).
- $C_{11}H_9O_2N_3$ 10) α -Nitromethylen- β -[1-Naphtyl]hydrazin. Sm. 120° (C. 1903 [2] 427).
- 11) Oxim d. 1,2-Naphtochinonmonourein (G. 27 [1] 236). — *III, 285.
- $C_{11}H_9O_3N$ *1) Methylläther d. 1-Nitro-2-Oxynaphtalin. Sm. 126° (C. 1903 [2] 1109).
- *34) Methylester d. Benzoylcyanessigsäure. Sm. 74°. NH_3 , Äthylamin-salz (C. r. 136, 690 C. 1903 [1] 920; Bl. [3] 31, 332 C. 1904 [1] 1135).
- 46) Methylläther d. 2-Nitro-1-Oxynaphtalin. Sm. 80° (C. 1903 [2] 1109).
- 47) Cytisolsäure. Sm. oberh. 350° (B. 37, 19 C. 1904 [1] 522).
- $C_{11}H_9O_3N_3$ *5) Acetylphenylhydrazoncyanessigsäure. Sm. 210°. Pb (J. pr. [2] 67, 404 C. 1903 [1] 1346).
- 9) 6-Semicarbazonmethyl-1,2-Benzpyron. Sm. noch nicht bei 320° (B. 37, 196 C. 1904 [1] 661).
- 10) Benzoat d. 4-Oximido-5-Keto-3-Methyl-4,5-Dihydropyrazol. Sm. 170—180° u. Zers. (G. 34 [1] 182 C. 1904 [1] 1332).
- $C_{11}H_9O_4N$ 15) α -Cyan- β -[3,4-Dioxyphenyl]propion-3,4-Methylenäthersäure. Sm. 142° (C. 1904 [1] 879).
- 16) α -Phtalylamidopropionsäure. Sm. 164° (M. 25, 779 C. 1904 [2] 1121).
- 17) Diäthylester d. 1-Methyltetrahydropyrrrol-2,2-Dicarbonsäure. Sd. 133—135°₁₀. Pikrat (A. 326, 116 C. 1903 [1] 843).
- $C_{11}H_9O_4Cl_3$ 7) Diacetat d. 3,5,6-Trichlor-2,4-Dioxy-1-Methylbenzol. Sm. 126° (A. 328, 308 C. 1903 [2] 1248).
- $C_{11}H_9O_4Br$ 5) Phenylbromisoparakonsäure. Sm. 147° (A. 305, 39 Anm.; A. 330, 325 C. 1904 [1] 928). — *II, 1077.
- $C_{11}H_9O_5N$ 10) Anhydrid d. β -[2-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 106° (B. 36, 2673 C. 1903 [2] 948).
- 11) Anhydrid d. Iso- β -[2-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 130—131° (B. 36, 2673 C. 1903 [2] 948).
- $C_{11}H_9O_5N_3$ *2) 2,4-Dinitrophenyloxydhydrat d. Pyridin. Salze siehe (J. pr. [2] 68, 260 C. 1903 [2] 1064; A. 333, 296 C. 1904 [2] 1147).
- *5) ϵ -[2,4-Dinitrophenyl]imido- α -Oxy- $\alpha\gamma$ -Pentadien. Sm. 180° (B. 34, 3022; A. 333, 302 C. 1904 [2] 1148; J. pr. [2] 70, 25 C. 1904 [2] 1233).
- $C_{11}H_9O_6N$ 11) cis-1-[2-Nitrophenyl]-R-Trimethylen-trans-2,3-Dicarbonsäure. Sm. 245° u. Zers. (B. 36, 3780 C. 1904 [1] 42).
- $C_{11}H_9NCl_2$ 2) Chlor-2-Chlorphenylat d. Pyridin + H_2O . Sm. 88—93°. 2 + $PtCl_4$ (A. 333, 334 C. 1904 [2] 1150).
- 3) Chlor-4-Chlorphenylat d. Pyridin. Sm. 123—124°. 2 + $PtCl_4$ (A. 333, 332 C. 1904 [2] 1150).
- $C_{11}H_{10}ON_2$ 37) 2-[α -Oximidobenzyl]pyrrol. Sm. 147° (B. 37, 2797 C. 1904 [2] 532).
- $C_{11}H_{10}O_2N_2$ *34) Phenylhydrazid d. Furan-2-Carbonsäure. Sm. 144° (B. 37, 2953 C. 1904 [2] 993).
- 48) 4-Acetyl-amido-3-Phenylisoxazol. Sm. 128—129° (A. 328, 247 C. 1903 [2] 1000).
- 49) 8-Nitro-2,6-Dimethylchinolin. Sm. 114°. HCl (C. 1904 [2] 543).
- 50) Methylester d. α -Cyan- β -Amido- β -Phenylakrylsäure. Sm. 181 bis 182° (C. r. 136, 690 C. 1903 [1] 920; Bl. [3] 31, 332 C. 1904 [1] 1135).
- $C_{11}H_{10}O_2N_4$ 8) 1-Benzylidenamido-5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 170° (B. 36, 3615 C. 1903 [2] 1380).
- 9) Amid d. Acetylphenylhydrazoncyanessigsäure. Sm. 224° (J. pr. [2] 67, 406 C. 1903 [1] 1347).
- $C_{11}H_{10}O_2Br_4$ *1) $\alpha\beta\gamma\delta$ -Tetrabrom- δ -Phenylvaleriansäure. Sm. 245° (A. 336, 221 C. 1904 [2] 1733).
- $C_{11}H_{10}O_3S$ 5) δ -Merkapto- α -Phenyl- $\alpha\gamma$ -Butadien- δ -Carbonsäure. Sm. 149° (M. 23, 968 C. 1903 [1] 284).
- $C_{11}H_{10}O_3N_2$ *29) 8-Nitro-2-Keto-1-Aethyl-1,2-Dihydrochinolin. Sm. 87° (J. pr. [2] 68, 101 C. 1903 [2] 445).
- 31) ϵ -[4-Nitrophenyl]imido- α -Oxy- $\alpha\gamma$ -Pentadien (J. pr. [2] 70, 32 C. 1904 [2] 1234).
- 32) 6-Aethylnitrosamido-1,2-Benzpyron. Sm. 90° (Soc. 85, 1238 C. 1904 [2] 1124).

- $C_{11}H_{10}O_5N_2$ 33) 6- $[\beta$ -Acetylhydrazido]-1,2-Benzpyron. Sm. 163° (*Soc.* 85, 1236 *C.* 1904 [2] 1124).
- 34) Nitrocytisin. Sm. 275° (*B.* 37, 20 *C.* 1904 [1] 522).
- 35) 3-Nitrophenylhydroxyd d. Pyridin. Salze siehe (*J. pr.* [2] 70, 40 *C.* 1904 [2] 1235).
- 36) 5-Keto-3-Methyl-1-Phenyl-4,5-Dihydropyrazol-1²-Carbonsäure. Sm. 139° (*B.* 37, 2231 *C.* 1904 [2] 229).
- 37) Aethylester d. 3-Cyanphenyloxaminsäure. Sm. 148—148,5° (*C.* 1904 [2] 102).
- 38) Aethylester d. 5-Phenyl-1,2,3-Oxdiazol-4-Carbonsäure. *Fl.* (*B.* 36, 3613 *C.* 1903 [2] 1380).
- 39) Amid d. α -Cyan- β -[3,4-Dioxyphenyl]propion-3,4-Methylenäthersäure. Sm. 186—186,5° (*C.* 1903 [2] 715; 1904 [1] 879).
- 40) Amid d. α -Cyan- β -4-Oxy-3-Methoxyphenylakrylsäure. Sm. 210 bis 210,5° (*C.* 1904 [2] 903).
- 41) 3-Cyanphenylmonamid d. Bernsteinsäure. Sm. 132—133°. *Ag* (*C.* 1904 [2] 103).
- $C_{11}H_{10}O_3Br_3$ 6) 3,4-Methylenäther-5-Methyläther d. 2,6-Dibrom-3,4,5-Trioxyl- $[\alpha\beta$ -Dibrompropyl]benzol (Dibromisomyristicindibromid). Sm. 156° (*B.* 36, 3449 *C.* 1903 [2] 1176).
- 7) 3,4-Methylenäther-5-Methyläther d. 2,6-Dibrom-3,4,5-Trioxyl- $[\beta\gamma$ -Dibrompropyl]benzol (Dibrommyristicindibromid). Sm. 130° (*B.* 36, 3448 *C.* 1903 [2] 1176; *B.* 36, 3453 *C.* 1903 [2] 1177).
- $C_{11}H_{10}O_3S$ *5) Methylester d. Naphtalin-1-Sulfonsäure. Sm. 78° (*A.* 327, 117 *C.* 1903 [1] 1214).
- *6) Methylester d. Naphtalin-2-Sulfonsäure. Sm. 54° (*A.* 327, 117 *C.* 1903 [1] 1214).
- $C_{11}H_{10}O_4N_2$ 19) 2,5-Diketo-1-Phenyltetrahydroimidazol-4-Methylcarbonsäure. Sm. 228°. *Ag* (*B.* 36, 3341 *C.* 1903 [2] 1175).
- 20) Aethylester d. 1,3-Diketo-1,3-Dihydro-2,4-Benzdiazol-2-Methylcarbonsäure (Ae. d. Chinolinylamidoessigsäure). Sm. 122° (*B.* 37, 2132 *C.* 1904 [2] 232).
- $C_{11}H_{10}O_4Cl_2$ 2) Verbindung (aus Zimmtsäure u. Dichloressigsäure) (*R.* 21, 353 *C.* 1903 [1] 150).
- $C_{11}H_{10}O_3Br_2$ *4) Dimethyläther d. 3,4-Dibrom-5,7-Dioxy-3,4-Dihydro-1,2-Benzpyron. Sm. 250—260° (*Ar.* 242, 292 *C.* 1904 [2] 105).
- $C_{11}H_{10}O_7N_2$ 3) Aethylester d. 3,5-Dinitrobenzoylessigsäure. Sm. 73° (*J. pr.* [2] 69, 461 *C.* 1904 [2] 595).
- $C_{11}H_{10}O_8N_2$ 4) β -[2,6-Dinitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 168—169° (*B.* 36, 2674 *C.* 1903 [2] 948).
- 5) Iso- β -[2,6-Dinitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 181° (*B.* 36, 2674 *C.* 1903 [2] 948).
- $C_{11}H_{10}NCl$ 5) Chlorphenylat d. Pyridin + H_2O . Sm. 105—106°. + $FeCl_3$, + $PtCl_4$, + $AuCl_3$ (*J. pr.* [2] 69, 115 *C.* 1904 [1] 815; *A.* 333, 329 *C.* 1904 [2] 1150).
- $C_{11}H_{10}NBr$ 1) Bromphenylat d. Pyridin. + $FeCl_3$ (*J. pr.* [2] 69, 118 *C.* 1904 [1] 815).
- $C_{11}H_{11}ON$ *49) Cytisin. Sm. 199° (*B.* 37, 19 *C.* 1904 [1] 522).
- 50) Phenylhydroxyd d. Pyridin. Salze siehe (*J. pr.* [2] 69, 117 *C.* 1904 [1] 815; *A.* 333, 329 *C.* 1904 [2] 1150).
- 51) 3-Aethyl-5-Phenylisoxazol. Sm. —2°; *Sd.* 157—158°₁₈ (*C. r.* 137, 796 *C.* 1904 [1] 43).
- 52) 5-Oxy-2,4-Dimethylchinolin. Sm. 200° (*B.* 36, 4017 *C.* 1904 [1] 293).
- 53) 7-Oxy-2,4-Dimethylchinolin. Sm. 218°. *HCl* (*B.* 36, 4016 *C.* 1904 [1] 293).
- 54) Nitril d. isom. β -Keto- α -Phenylbutan- α -Carbonsäure. Sm. 70° (*B.* 36, 2242 *C.* 1903 [2] 435).
- $C_{11}H_{11}ON_3$ 18) 4-Nitroso-3,5-Dimethyl-1-Phenylpyrazol. Sm. 94° (*A.* 325, 192 *C.* 1903 [1] 647).
- 19) 5-Oxy-3-Propenyl-1-Phenyl-1,2,4-Triazol. Sm. 188° (*B.* 36, 1100 *C.* 1903 [1] 1140).
- $C_{11}H_{11}O_2N$ *49) 4-Methylphenylimid d. Bernsteinsäure. Sm. 150° (*B.* 37, 1599 *C.* 1904 [1] 1418).
- *60) 6-Methyläther d. 6,7-Dioxy-2-Methylchinolin. *HCl*, *Pikrat* (*B.* 36, 2211 *C.* 1903 [2] 444).

- $C_{11}H_{11}O_2N$ 63) 6-Dimethylamido-1,2-Benzpyron. Sm. 85—86° (*Soc.* 85, 1237 *C.* 1904 [2] 1124).
 64) 6-Aethylamido-1,2-Benzpyron. Sm. 83° (*Soc.* 85, 1238 *C.* 1904 [2] 1124).
 65) 6-Oxy-2-Keto-1-Aethyl-1,2-Dihydrochinolin. Sm. 208—210° (207 bis 208°) (*B.* 36, 459 *C.* 1903 [1] 590; *B.* 36, 1176 *C.* 1903 [1] 1364).
 66) 8-Oxy-2-Keto-1-Aethyl-1,2-Dihydrochinolin. Sm. 202—203° (*B.* 36, 1177 *C.* 1903 [1] 1364).
 67) Methyläther d. 6-Oxy-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 75° (*B.* 36, 457 *C.* 1903 [1] 590).
 68) Aethylester d. Phenyleyanessigsäure. Sd. 275°₇₆₀ (*Am.* 32, 120 *C.* 1904 [2] 953).
- $C_{11}H_{11}O_2N_3$ *17) Aethylester d. Phenylhydrazoncyanessigsäure. Sm. 82° (*J. pr.* [2] 67, 396 *C.* 1903 [1] 1346).
 *18) Aethylester d. isom. Phenylhydrazoncyanessigsäure. Sm. 125° (*J. pr.* [2] 67, 396 *C.* 1903 [1] 1346).
 *19) Aethylester d. Phenylazocyanessigsäure. Sm. 84° (*J. pr.* [2] 67, 397 *C.* 1903 [1] 1346).
 34) 4-Nitro-3,5-Dimethyl-1-Phenylpyrazol. Sm. 103° (*A.* 325, 192 *C.* 1903 [1] 647).
 35) 7-Acetylamido-2-Acetyldiazol. Sm. 160,5—161,5° (*B.* 37, 2577 *C.* 1904 [2] 658).
 36) Aethylester d. isom. Phenylazocyanessigsäure. Sm. 118° (*J. pr.* [2] 67, 399 *C.* 1903 [1] 1346).
 37) Nitril d. 2,6-Dioxy-4-Isobutylpyridin-3,5-Dicarbonsäure. NH_4 , Ni , $Co + 7H_2O$, Cu , $Ag + H_2O$ (*C.* 1903 [2] 192).
 38) 3-Cyanphenylamid d. Succinaminsäure. Sm. 184° (*C.* 1904 [2] 103).
- $C_{11}H_{11}O_2Cl$ 1) β -Chlor- α -Phenyl- α -Buten- α -Carbonsäure. Sm. 121° (*B.* 36, 2248 *C.* 1903 [2] 436).
- $C_{11}H_{11}O_3N$ *4) Oxyhydrastinin (*Soc.* 83, 623 *C.* 1903 [1] 591).
 *33) Aethylester d. 3-Oxyindol-2-Carbonsäure (D.R.P. 138845 *C.* 1903 [1] 547).
 *44) Benzylimid d. d-Aepfelsäure. Sm. 105° (*J. pr.* [2] 70, 9 *C.* 1904 [2] 774; *J. pr.* [2] 70, 342 *C.* 1904 [2] 1567).
 58) Aethylester d. β -[3-Nitrosophenyl]akrylsäure. Sm. 65—66° (*Am.* 32, 397 *C.* 1904 [2] 1498).
 59) Aethylester d. β -[4-Nitrosophenyl]akrylsäure. Sm. 72—73° (*Am.* 32, 394 *C.* 1904 [2] 1498).
 60) 4-Oxyphenylimid d. Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 230° (*G.* 34 [2] 262 *C.* 1904 [2] 1453).
 61) Benzylimid d. l-Aepfelsäure. Sm. 105° (*B.* 30, 1582; *J. pr.* [2] 70, 10 *C.* 1904 [2] 774).
 62) Benzylimid d. r-Aepfelsäure. Sm. 118° (*B.* 30, 1582; *J. pr.* [2] 70, 8 *C.* 1904 [2] 773).
- $C_{11}H_{11}O_3N_3$ 13) Methylenäther d. γ -Semicarbazon- α -[3,4-Dioxyphenyl]propen. Sm. 226° (*B.* 37, 1701 *C.* 1904 [1] 1497).
 14) 4-[β -Oximido- β -Phenyläthyl]-1,2,3,6-Dioxiazin. Sm. 195° (*A.* 330, 245 *C.* 1904 [1] 946).
 15) 1-Benzoyl-3,5-Dioxy-6-Methyl-1,6-Dihydro-1,2,4-Triazin. Sm. 210° (*Am.* 28, 400 *C.* 1903 [1] 90).
 16) 5-Oxy-1-Phenyl-1,2,3-Triazoläthyläther-4-Carbonsäure + H_2O . Sm. 96—97° wasserfrei (*A.* 335, 80 *C.* 1904 [2] 1230).
 17) Aethylester d. 5-Keto-1-Phenyl-4,5-Dihydro-1,2,3-Triazol-4-Carbonsäure. Sm. 73—74° (*B.* 35, 4051 *C.* 1903 [1] 170).
 18) Amid d. 5-[3,4-Dioxyphenyl]-4,5-Dihydropyrazol-3,4-Methylenäther-1-Carbonsäure. UCl_2 (*B.* 37, 1701 *C.* 1904 [1] 1497).
C 50,6 — H 4,2 — O 18,4 — N 26,8 — $M. G.$ 261.
- $C_{11}H_{11}O_3N_5$ 1) Azid d. Benzoylamidoacetylamidoessigsäure. Sm. 109—110° (*J. pr.* [2] 70, 79 *C.* 1904 [2] 1033).
- $C_{11}H_{11}O_3Br_3$ 4) Acetat d. Pseudo-p-Bromoxypropyldibromphenol. Sm. 107—108° (*B.* 37, 1560 *C.* 1904 [1] 1438).
- $C_{11}H_{11}O_3J$ 1) Verbindung (aus Ceropten). Sm. 182° (*C.* 1904 [1] 40).
- $C_{11}H_{11}O_4N$ *14) Aethylester d. β -[3-Nitrophenyl]akrylsäure. Sm. 78—79° (*Am.* 32, 397 *C.* 1904 [2] 1498).

- $C_{11}H_{11}O_4N$ *15) Aethylester d. β -[4-Nitrophenyl]akrylsäure. Sm. 141—142° (*Am.* 32, 394 *C.* 1904 [2] 1498).
- 26) *cis*-1-[*p*-Amidophenyl]-*R*-Trimethylen-*trans*-2,3-Dicarbonsäure. Sm. noch nicht bei 300°. HCl (*B.* 36, 3781 *C.* 1904 [1] 42).
- 27) Methyl ester d. α -Benzoximidopropionsäure. Sm. 163°; Sd. 190°₁₂ u. Zers. (*Bl.* [3] 31, 1071 *C.* 1904 [2] 1457).
- 28) 4-Methylphenylimid d. *d*-Weinsäure. Sm. 235° u. Zers. (*Soc.* 83, 1366 *C.* 1904 [1] 85).
- $C_{10}H_{11}O_4N_3$ 6) 4-Methyläther d. 4-[β -Oximido- β -4-Oxyphenyläthyl]-1,2,3,6-Dioxiazin. Sm. 197—198° (*A.* 330, 243 *C.* 1904 [1] 945).
- 7) α - γ -Laktam d. α -Cyan- β - γ -Diimido- ϵ -Ketohehexan- α - δ -Dicarbonsäure- δ -Aethylester. Sm. 168° (*A.* 332, 156 *C.* 1904 [2] 192).
- 8) γ -Acetat d. α -Phenylimido- β -Nitro- γ -Oximidopropan. Sm. 115—116° (*Am.* 29, 269 *C.* 1903 [1] 958).
- $C_{11}H_{11}O_4N_5$ 2) γ -Semicarbazon- δ -Oximido- α -[3-Nitrophenyl]- α -Buten. Sm. 196 bis 197° u. Zers. (*C.* 1904 [1] 28; *A.* 330, 254 *C.* 1904 [1] 946).
- $C_{11}H_{11}O_4Br$ 4) 6-Brom-3,5-Dioxy-2,4-Diacetyl-1-Methylbenzol. Sm. 79° (*Soc.* 85, 978 *C.* 1904 [2] 454, 711).
- $C_{11}H_{11}O_5N$ *16) Benzol-1-Carbonsäure-2-Acetylamidoessigsäure (D.R.P. 147633 *C.* 1904 [1] 66; D.R.P. 151435 *C.* 1904 [1] 1585).
- 23) α -Benzoylamidopropionsäure-2-Carbonsäure + H_2O . Sm. 129°. Ba + $4H_2O$ (*M.* 25, 781 *C.* 1904 [2] 1122).
- 24) Aethylester d. 2-Nitrobenzoylessigsäure. Fl. K, Cu (*Soc.* 85, 152 *C.* 1904 [1] 724).
- $C_{11}H_{11}O_6N$ *7) Diacetat d. 4-Nitro-1-Dioxyethylbenzol. Sm. 126,5° (*Am.* 31, 168 *C.* 1904 [1] 875).
- 12) Iso- β -[2-Nitrophenyl]propan- α - γ -Dicarbonsäure. Sm. 204,5° (*B.* 36, 2672 *C.* 1903 [2] 948).
- $C_{11}H_{11}O_6N_3$ 4) Dimethylester d. 2-Nitrophenylhydrazonmethan- α - α -Dicarbonsäure. Sm. 143—144° (*B.* 37, 4176 *C.* 1904 [2] 1704).
- 5) Dimethylester d. 3-Nitrophenylhydrazonmethan- α - α -Dicarbonsäure. Sm. 115—116° (*B.* 37, 4177 *C.* 1904 [2] 1704).
- 6) Dimethylester d. 4-Nitrophenylhydrazonmethan- α - α -Dicarbonsäure. Sm. 162—163° (*B.* 37, 4177 *C.* 1904 [2] 1704).
- $C_{11}H_{11}O_7N$ 6) 2-Methylester d. 6-Nitro-3,4-Dioxybenzoldimethyläther-1-Carbonsäurealdehyd-2-Carbonsäure (2-M. d. Nitroopiansäure). Sm. 76—78° (*M.* 24, 801 *C.* 1904 [1] 164).
- 7) Pseudomethylester d. 6-Nitro-3,4-Dioxybenzoldimethyläther-1-Carbonsäurealdehyd-2-Carbonsäure (Ps. d. Nitroopiansäure). Sm. 181,5—182,5° (*M.* 24, 796 *C.* 1904 [1] 163).
- $C_{11}H_{11}NCl_2$ 1) 3-Dichlormethyl-2,3-Dimethylpseudindol. Sm. 73—74° (*C.* 1904 [2] 342).
- $C_{11}H_{11}N_3Cl$ 5) 5-Chlor-3-Methyl-1-[2-Methylphenyl]pyrazol. Sm. 56° (*B.* 37, 2229 *C.* 1904 [2] 228).
- $C_{11}H_{11}N_3Br$ *2) 5-Brom-3,4-Dimethyl-1-Phenylpyrazol. Sm. 51° (*A.* 331, 241 *C.* 1904 [1] 1221).
- $C_{11}H_{12}ON_2$ *8) Antipyrin. + $Hg(NO_3)_2$, + $Hg(NO_3)_2$, + $Hg_2(NO_3)_2$ (*Bl.* [3] 29, 201 *C.* 1903 [1] 839; *A.* 328, 78 *C.* 1903 [2] 250).
- *53) Amid d. α -Cyan- β -[3-Methylphenyl]propionsäure. Sm. 108,5° (*A.* 325, 211 *C.* 1903 [1] 439).
- 55) 5-Keto-4,4-Dimethyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 51° (*Bl.* [3] 31, 166 *C.* 1904 [1] 869).
- 56) Nitril d. 2-Butyrylamidobenzol-1-Carbonsäure. Sm. 89—89,5° (*C.* 1903 [1] 175).
- 57) Nitril d. 3-Butyrylamidobenzol-1-Carbonsäure. Sm. 72,5—73,5° (*C.* 1904 [2] 101).
- 58) Nitril d. 2-Isobutyrylamidobenzol-1-Carbonsäure. Sm. 111—111,5° (*C.* 1903 [1] 175).
- 59) Nitril d. 3-Isobutyrylamidobenzol-1-Carbonsäure. Sm. 101° (*C.* 1904 [2] 101).
- $C_{11}H_{12}O_2N_2$ *39) Amid d. α -Cyan- β -[4-Methoxyphenyl]propionsäure. Sm. 172° (*A.* 325, 223 *C.* 1903 [1] 439).
- 40) γ -Nitrimido- α -Phenyl- β -Methyl- α -Buten^p Sm. 154—155° (*A.* 330, 246 *C.* 1904 [1] 946).

- $C_{11}H_{12}O_2N_2$ 41) 3,5-Diketo-4,4-Dimethyl-1-Phenyltetrahydropyrazol. Sm. 177° (Soc. 83, 1251 C. 1903 [2] 1422).
- 42) 3-Nitro-2-Methyl-1-Aethylindol. Sm. 125° (G. 34 [2] 62 C. 1904 [2] 710).
- 43) Tryptophan (C. 1903 [2] 1011; B. 37, 1803 C. 1904 [1] 1610).
- 44) Monoacetylhydrazon d. $\alpha\beta$ -Diketo- α -Phenylpropan. Sm. 154° (B. 36, 3187 C. 1903 [2] 939).
- 45) Aethylester d. α -Cyanphenylamidoessigsäure. Sm. 57° (Am. 30, 469 C. 1904 [1] 378).
- 46) Aethylester d. β -Phenyl- α -Diazopropionsäure. Sd. 90–94°₁₁ (B. 37, 1268 C. 1904 [1] 1334).
- $C_{11}H_{12}O_2N_4$ 10) γ -Oximido- δ -Semicarbazon- α -Phenyl- α -Buten. Sm. 225–226° u. Zers. (C. 1903 [2] 1432; A. 330, 251 C. 1904 [1] 946).
- 11) isom. γ -Oximido- δ -Semicarbazon- α -Phenyl- α -Buten? Sm. 242° (C. 1903 [2] 1432; A. 330, 252 C. 1904 [1] 946).
- 12) 1-Methylphenylamido-5-Methyl-1,2,3-Triazol-4-Carbonsäure + H₂O. Sm. 125° (148° wasserfrei) (A. 325, 159 C. 1903 [1] 645).
- 13) Aethylester d. 5-Amido-1-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 122° (B. 35, 4059 C. 1903 [1] 171).
- $C_{11}H_{12}O_2Br_2$ *7) Aethylester d. i- $\alpha\beta$ -Dibrom- β -Phenylpropionsäure. Sm. 75–76° (Soc. 83, 671 C. 1903 [2] 115).
- 15) $\alpha\beta$ -Dibrom- β -[2,5-Dimethylphenyl]propionsäure. Sm. 179–180° u. Zers. (G. 34 [2] 121 C. 1904 [2] 1214).
- $C_{11}H_{12}O_3N_2$ 20) Aethylester d. β -[4-Oxyphenyl]- α -Diazopropionsäure. Fl. (B. 37, 1265 C. 1904 [1] 1333).
- 21) Aethylester d. Säure C₉H₈O₃N₂. Sm. 168° (C. 1904 [1] 1555).
- $C_{11}H_{12}O_3N_4$ 6) 3-Ureido-2,5-Diketo-4-Methyl-1-Phenyltetrahydroimidazol. Zers. bei 192° (C. 1904 [2] 1029).
- C 47,8 — H 4,3 — O 17,4 — N 30,4 — M. G. 276.
- $C_{11}H_{12}O_3N_6$ 1) Azid d. β -Phenylureidoacetylamidoessigsäure. Sm. 108° u. Zers. (J. pr. [2] 70, 257 C. 1904 [2] 1464).
- $C_{11}H_{12}O_3Br_2$ 16) 3,4-Methylenäther-5-Methyläther d. 3,4,5-Trioxy-1-[$\alpha\beta$ -Dibrompropyl]benzol (Isomyristicindibromid). Sm. 109° (105°) (B. 23, 1809; B. 36, 3448 C. 1903 [2] 1176). — III, 638.
- $C_{11}H_{12}O_3Br_4$ 1) α ,3-Dimethyläther d. 2,5,6-Tribrom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 126–127° (A. 329, 34 C. 1903 [2] 1437).
- $C_{11}H_{12}O_4N_2$ *5) Benzoylamidoacetylamidoessigsäure. Sm. 206,5° (J. pr. [2] 70, 76 C. 1904 [2] 1033).
- *6) Dimethylester d. Phenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 62° (B. 37, 4170 C. 1904 [2] 1703).
- 21) 2,4-Di[Acetylamido]benzol-1-Carbonsäure. Sm. 261° (B. 36, 1802 C. 1903 [2] 283).
- 22) 4-Phenyltetrahydropyrazol-3,5-Dicarbonsäure. Sm. 227–228° (B. 36, 3779 C. 1904 [1] 41).
- 23) 2-Methylphenylamid d. N-Acetoximidooxyessigsäure. Sm. 125° (Soc. 81, 1571 C. 1903 [1] 158).
- 24) 3-Amidoformylphenylmonamid d. Bernsteinsäure. Sm. 203–205° Ag (C. 1904 [2] 103).
- $C_{11}H_{12}O_5N_2$ *9) Aethylester d. 3-Nitro-4-Acetylamidobenzol-1-Carbonsäure. Sm. 96–97° (D.R.P. 151725 C. 1904 [1] 1587).
- 13) β -Phenylureidobernsteinsäure. Sm. 183°. Ba + H₂O (B. 36, 3339 C. 1903 [2] 1175).
- 14) Methylester d. β -Nitro- γ -Oximido- γ -Phenylbuttersäure. Sm. 128° u. Zers. (A. 329, 251 C. 1904 [1] 31).
- 15) Aethylester d. 3-Nitrobenzoylamidoessigsäure. Sm. 75° (B. 36, 1647 C. 1903 [2] 32).
- 16) Aethylester d. 4-Nitrobenzoylamidoessigsäure. Sm. 144° (B. 36, 1648 C. 1903 [2] 32).
- 17) 2-Aethylester d. Phenylnitrosamidoessigsäure-2-Carbonsäure. Fl. (D.R.P. 138207 C. 1903 [1] 305).
- 18) Monamid d. β -[2-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 142° (B. 36, 2674 C. 1903 [2] 948).
- 19) Monamid d. Iso- β -[2-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 156° (B. 36, 2674 C. 1903 [2] 948).

- $C_{11}H_{12}O_6S$ 1) α -Phenyl- α -Buten- δ -Carbonsäure- γ -Sulfonsäure. Sm. 76°. K, K₂, Ca + 3H₂O, Ba (*Am.* 31, 247 *C.* 1904 [1] 1080).
- $C_{11}H_{12}O_6N_2$ 10) Iso- β -[2-Nitro-4-Amidophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 185° (*B.* 36, 2676 *C.* 1903 [2] 948).
- $C_{11}H_{12}O_6S$ 1) Piperonylidenacetonyldrosulfonsäure. Na + 2H₂O, K + H₂O, Ba + 2H₂O (*B.* 37, 4050 *C.* 1904 [2] 1648).
- $C_{11}H_{12}O_7N_2$ 7) β -[2-Nitro-4-Hydroxylamidophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 165° u. Zers. NH₄ (*B.* 35, 2073; *B.* 36, 2675 *C.* 1903 [2] 948).
- $C_{11}H_{12}O_6N_4$ C 40,2 — H 3,7 — O 39,0 — N 17,1 — M. G. 328.
- $C_{11}H_{12}O_6S_2$ 1) 4-Methyl-1,3-Phenylendi[Sulfonessigsäure]. Fl. Ba (*J. pr.* [2] 68, 337 *C.* 1903 [2] 1172).
- $C_{11}H_{12}NJ$ *8) Jodäthylat d. Chinolin. Sm. 156—157° (*B.* 37, 2009 *C.* 1904 [2] 124).
- $C_{11}H_{12}N_7S$ *5) Thiopyrin. HJ (*A.* 331, 197 *C.* 1904 [1] 1218).
- *6) Methyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 306 bis 307°₇₆₀. HCl + H₂O, (2HCl, PtCl₄ + 2H₂O), HJ, HNO₃, Pikrat (*A.* 331, 224 *C.* 1904 [1] 1220; *A.* 331, 201 *C.* 1904 [1] 1218).
- 7) Isothioantipyrin. Sm. 136° (*B.* 36, 718 *C.* 1903 [1] 776).
- 8) 4-Thiocarbonyl-2-Propyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 182 bis 183° (*C.* 1903 [1] 1270).
- 9) 4-Thiocarbonyl-2-Isopropyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 203 bis 204° (*C.* 1903 [1] 1270).
- $C_{11}H_{12}ClBr$ 1) α -Chlor- β -Brom- α -Phenyl- γ -Methyl- α -Buten. Sd. 125—129°₁₀ (*B.* 37, 1088 *C.* 1904 [1] 1260).
- 2) α -Chlor- β -Brom- α -[2,5-Dimethylphenyl]propen. Sd. 258—261° (*B.* 36, 773 *C.* 1903 [1] 834).
- $C_{11}H_{13}ON$ *2) δ -Phenylimido- β -Ketopentane. Sm. 51—53°; Sd. 279—281°₇₁₅ (*B.* 37, 1325 *C.* 1904 [1] 1345).
- 46) d-1-Acetyl-2-Methyl-2,3-Dihydroindol. Sm. 89° (*Soc.* 85, 1335 *C.* 1904 [2] 1657).
- 47) l-1-Acetyl-2-Methyl-2,3-Dihydroindol. Sm. 89° (*Soc.* 85, 1333 *C.* 1904 [2] 1657).
- 48) 2-Oxy-3-Isopropylpseudoindol (2-Keto-3-Isopropyl-2,3-Dihydroindol). Sm. 106°. Ag (*M.* 24, 568 *C.* 1903 [2] 887).
- 49) Aldehyd d. β -[4-Dimethylamidophenyl]akrylsäure (*B.* 37, 827 *C.* 1904 [1] 1152).
- $C_{11}H_{13}ON_3$ 15) γ -Semicarbazon- α -Phenyl- α -Buten. Sm. 185° (*B.* 36, 4381 *C.* 1904 [1] 454).
- 16) γ -Semicarbazon- α -Phenyl- α -Buten. Sm. 187° (*B.* 37, 3183 *C.* 1904 [2] 991).
- 17) γ -Semicarbazon- α -[4-Methylphenyl]propen. Sm. 210° (*B.* 36, 851 *C.* 1903 [1] 975).
- 18) 2-Semicarbazon-1-Methyl-2,3-Dihydroinden. Sm. 195° (*A.* 336, 6 *C.* 1904 [2] 1466).
- 19) α -Cyanmethyl- α -Aethyl- β -Phenylharnstoff. Sm. 116° (*B.* 37, 4092 *C.* 1904 [2] 1725).
- 20) 5-Oxy-3-Propyl-1-Phenyl-1,2,4-Triazol. Sm. 146° (*B.* 36, 1098 *C.* 1903 [1] 1140).
- $C_{11}H_{13}OBr$ 7) α -Bromisobutylphenylketon. Sm. 47° (*B.* 37, 1088 *C.* 1904 [1] 1260).
- $C_{11}H_{13}O_2N$ *52) Aethyl-4-Aethylamidophenylketon. Sm. 175° (*C.* 1903 [1] 1222).
- 60) δ -[3-Oxyphenyl]imido- β -Oxy- β -Penten. Sm. 135° (*B.* 36, 4015 *C.* 1904 [1] 293).
- 61) 4-Acetylamo-2 oder -3-Acetyl-1-Methylbenzol. Sm. 105° (D.R.P. 56971). — *III, 118.
- 62) Methyl-4-Propionylamidophenylketon. Sm. 136° (*C.* 1903 [1] 832; *Soc.* 85, 390 *C.* 1904 [1] 1404).
- 63) 4-Methyläther d. γ -Oximido- α -[4-Oxyphenyl]- α -Buten. Sm. 119 bis 120° (*A.* 330, 242 *C.* 1904 [1] 945).
- 64) 3-Keto-1-Oxy-1-Methyl-2-Aethyl-2,3-Dihydroisindol. Sm. 93—94° u. Zers. (*B.* 37, 387 *C.* 1904 [1] 668).
- 65) 8-Amido-1,2,3,4-Tetrahydronaphtalin-1-Carbonsäure. Sm. 160 bis 161° u. Zers. Ag + AgNO₃ (*B.* 35, 4222 *C.* 1903 [1] 166).

- $C_{11}H_{13}O_2N$ 66) Amid d. β -Keto- α -Phenylbutan- α -Carbonsäure. Sm. 114—116° (B. 36, 2244 C. 1903 [2] 435).
- $C_{11}H_{13}O_2N_3$ 16) γ -Semicarbazon- α -[2-Oxyphenyl]- α -Buten. Sm. 206—207° u. Zers. (B. 37, 3184 C. 1904 [2] 991).
- 17) Methyläther d. γ -Semicarbazon- α -[4-Oxyphenyl]propen. Sm. 199° (B. 36, 854 C. 1903 [1] 976).
- 18) Äthyläther d. 3-Oxy-5-Keto-4-Methyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 95° (B. 36, 3148 C. 1903 [2] 1073).
- 19) 3,5-Diketo-4-Äthyl-1-Phenylhexahydro-1,2,4-Triazin. Sm. 135 bis 136° (B. 36, 3886 C. 1904 [1] 27).
- $C_{11}H_{13}O_3N$ *1) Corydaldin (Soc. 83, 622 C. 1903 [1] 591).
- *3) Hydrastinin (Soc. 83, 623 C. 1903 [1] 591; Soc. 85, 1005 C. 1904 [2] 455, 716).
- 62) α -[4-Aethoxyphenyl]imidopropionsäure. Sm. 228° (G. 34 [2] 273 C. 1904 [2] 1454).
- 63) Äthylester d. Phenacetylamidoameisensäure. Sm. 113° (B. 36, 746 C. 1903 [1] 827).
- 64) Äthylester d. 4-Acetylamidobenzol-1-Carbonsäure. Sm. 110° (D.R.P. 151725 C. 1904 [1] 1587).
- 65) Äthylester d. 2-Methylphenyloxaminsäure. Sm. 40° (Soc. 81, 1571 C. 1903 [1] 158).
- 66) Phenylamid d. α -Acetoxypropionsäure. Sm. 121—122° (B. 37, 3974 C. 1904 [2] 1605).
- 67) Phenylmonamid d. Propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 126—127° (C. 1904 [2] 955).
- 68) Phenylmonamid d. Propan- $\beta\beta$ -Dicarbonsäure. Sm. 133° (Soc. 83, 1246 C. 1903 [2] 1421).
- $C_{11}H_{13}O_3N_3$ 15) Methylenäther d. β -Semicarbazon- α -[3,4-Dioxyphenyl]propan. Sm. 163° (A. 332, 333 C. 1904 [2] 652).
- 16) 5-oder-7-Nitro-2-Keto-1,3,4,6-Tetramethyl-2,3-Dihydrobenzimidazol. Sm. 132° (B. 36, 3974 C. 1904 [1] 178).
- 17) Semicarbazon d. Verbindung $C_{10}H_{10}O_3$ (aus Isosafrol). Sm. 158° (B. 36, 3580 C. 1903 [2] 1363).
- 18) Benzylester d. α -Semicarbazonpropionsäure. Sm. 176° (C. r. 138, 985 C. 1904 [1] 1398).
- 19) N-Acetat d. β -Phenylhydrazon- α -Oximido- α -Oxypropan. Sm. 113° (Soc. 81, 1574 C. 1903 [1] 158).
- $C_{11}H_{13}O_3Br_3$ 3) α ,3-Dimethyläther d. 2,5-Dibrom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 111—112° (A. 329, 26 C. 1903 [2] 1436).
- 4) Verbindung (aus Maticoöl). Sm. 116° (B. 35, 4361 C. 1903 [1] 331).
- $C_{11}H_{13}O_4N$ *43) β -Benzylamid d. i- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 131°. Benzylaminsalz (B. 37, 2125 C. 1904 [2] 439).
- *44) β -Benzylamid d. d- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 130—131° u. Zers. Na, Ag, Benzylaminsalz (B. 37, 2124 C. 1904 [2] 439).
- *45) β -Benzylamid d. l- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 130—131° (B. 37, 2125 C. 1904 [2] 439).
- 57) Dimethyläther d. β -Nitro- α -[3,4-Dioxyphenyl]- α -Propen. Sm. 72° (A. 332, 335 C. 1904 [2] 652).
- 58) β -Methyläther-3,4-Methylenäther d. α -Oximido- β -Oxy- α -[3,4-Dioxyphenyl]propan. Sm. 74°; Sd. 200—205° (i. V.). HCl (A. 332, 334 C. 1904 [2] 652).
- 59) Acetylдамасценin. Sm. 203—204° (Ar. 242, 303 C. 1904 [2] 456).
- 60) Methyläthylester d. Phenylamin-NN-Dicarbonsäure. Sm. 69° (B. 37, 3681 C. 1904 [2] 1495).
- 61) Benzylmonamid d. r-Aepfelsäure (J. pr. [2] 70, 8 C. 1904 [2] 774).
- $C_{11}H_{13}O_4N_3$ *10) β -Phenylureidoacetylamidoessigsäure. Sm. 176°. Ag (J. pr. [2] 70, 253 C. 1904 [2] 1464).
- 11) Monoamid d. Phenylureidobernsteinsäure. Sm. 164°. Ba, Ag, (B. 36, 3338 C. 1903 [2] 1175).
- $C_{11}H_{13}O_4N_3$ 2) Di[Methylamid] d. 2-Nitrophenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 186—187° (B. 37, 4176 C. 1904 [2] 1704).

- $C_{11}H_{13}O_4N_5$ 3) Di[Methylamid] d. 3-Nitrophenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 202—203° (B. 37, 4177 C. 1904 [2] 1704).
 4) Di[Methylamid] d. 4-Nitrophenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 243° (B. 37, 4177 C. 1904 [2] 1704).
- $C_{11}H_{13}O_4J$ *1) Diacetat d. 3-Jodoso-1-Methylbenzol. Sm. 148° (A. 327, 270 C. 1903 [2] 350).
- $C_{11}H_{13}O_5N$ *18) Diäthylester d. 4-Oxypyridin-2,6-Dicarbonsäure + H_2O . Sm. 80 bis 81° (M. 24, 204 C. 1903 [2] 48).
 30) 1-Methylester-3-Aethylester d. 4-Oxybenzol-1-Carbonsäure-3-Amidoameisensäure. Sm. 158° (A. 325, 323 C. 1903 [1] 770).
- $C_{11}H_{13}O_5N_3$ 6) Semicarbazon d. Verb. $C_{10}H_{10}O_5$. Sm. 256° u. Zers. (B. 36, 3231 C. 1903 [2] 941).
- $C_{11}H_{13}O_8N_3$ 2) Dimethyläther d. 2,5,6-Trinitro-3,4-Dioxy-1-Propylbenzol. Sm. 97,3° (B. 36, 862 C. 1903 [1] 1085).
- $C_{11}H_{13}N_2J$ *8) Jodmethylester d. 1-Methyl-2-[3-Pyridyl]pyrrol (J. d. Nikotyrin). Sm. 207° (C. r. 137, 861 C. 1904 [1] 104).
- $C_{11}H_{13}N_3S$ 5) α -Cyanmethyl- α -Aethyl- β -Phenylthioharnstoff. Sm. 184—185° (B. 37, 4092 C. 1904 [2] 1725).
- $C_{11}H_{14}ON_2$ *1) Cytisin (B. 37, 16 C. 1904 [1] 522).
 *30) Benzylidenhydrazid d. Buttersäure. Sm. 98° (J. pr. [2] 69, 487 C. 1904 [2] 599).
 31) 6-Methylnitrosamido-1,2,3,4-Tetrahydronaphtalin. Fl. (Soc. 85, 736 C. 1904 [2] 117, 339).
 32) 4-Benzylidenmorpholin. Sm. 89° (B. 35, 4476 C. 1903 [1] 404).
 33) Methylamid d. β -Methylamido- β -Phenylakrylsäure. Sm. 118—119° (C. 1904 [2] 905).
 34) Benzylidenhydrazid d. Isobuttersäure. Sm. 103° (J. pr. [2] 69, 498 C. 1904 [2] 600).
- $C_{11}H_{14}OBr_2$ 3) Methyläther d. $\beta\gamma$ -Dibrom- β -[4-Oxyphenyl]butan. Fl. (B. 37, 3997 C. 1904 [2] 1641).
- $C_{11}H_{14}O_2N_2$ *15) α -Phenylhydrazonbutan- α -Carbonsäure. Sm. 114—115° (A. 331, 131 C. 1904 [1] 932).
 46) Di[3,5-Dimethyl-4-Isoxazolyl]methan. Sm. 141—142° (B. 36, 2167, 2176 C. 1903 [2] 371; A. 332, 21 C. 1904 [1] 1565).
 47) 4-Benzoylamidomorpholin. Sm. 214° (B. 35, 4476 C. 1903 [1] 404).
- $C_{11}H_{14}O_2N_4$ *2) 1-[4-Nitrophenyl]azohexahydropyridin (C. 1903 [2] 550).
 5) Di[Methylamid] d. Phenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 117—118° (B. 37, 4172 C. 1904 [2] 1703).
- $C_{11}H_{14}O_2S$ *2) γ -[2,4-Dimethylphenyl]sulfonpropen. Sm. 52° (J. pr. [2] 68, 309 C. 1903 [2] 1115).
- $C_{11}H_{14}O_2S_2$ 1) $\alpha\alpha$ -Dimerkaptopropionäthylphenyläthersäure. Sm. 98—99° (B. 36, 302 C. 1903 [1] 500).
- $C_{11}H_{14}O_3N_2$ *39) Amid d. Benzol-1-Carbonsäure-2-Amidoessigsäure-1-Aethylester. Sm. 180° (D.R.P. 137846 C. 1903 [1] 108).
 47) 5-Oxy-2,4-Di[α -Oximidoäthyl]-1-Methylbenzol. Sm. 191° (B. 36, 2164 C. 1903 [2] 370).
 48) α -Amidoacetylamido- β -Phenylpropionsäure. Sm. 270° u. Zers. (B. 37, 3313 C. 1904 [2] 1307).
 49) Methylester d. α -Benzoylamidoäthylamidoameisensäure. Sm. 150° (J. pr. [2] 70, 146 C. 1904 [2] 1394).
 50) Aethylester d. β -Phenylureidoessigsäure. Sm. 108—109° (Am. 28, 394 C. 1903 [1] 90).
 51) Aethylester d. α -[2-Methylphenyl]harnstoff- β -Carbonsäure. Sm. 137° (Soc. 81, 1571 C. 1903 [1] 158).
- $C_{11}H_{14}O_3N_4$ *3) Hydrazid d. Benzoylamidoacetylamidoessigsäure. Sm. 227—230° (J. pr. [2] 70, 78, 107 C. 1904 [2] 1033, 1036).
 4) α -[3-Nitrobenzyliden]amido- α -Methyl- β -Aethylharnstoff. Sm. 142 bis 143° (B. 37, 2324 C. 1904 [2] 312).
- $C_{11}H_{14}O_3Br_2$ *4) α -3-Dimethyläther d. 5-Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]-benzol. Sm. 106—107° (A. 328, 16 C. 1903 [2] 1435).
- $C_{11}H_{14}O_3S$ 4) Sulton d. γ -Oxy- γ -Phenylpentan- γ^2 -Sulfonsäure. Sm. 91° (B. 37, 3260 C. 1904 [2] 1031).

- $C_{11}H_{14}O_4N_2$ 31) 1- α -Amidoacetyl-amido- β -[4-Oxyphenyl]propionsäure (1-Glycyl-tyrosin). Sm. 165° (*B.* 37, 2495 *C.* 1904 [2] 425; *B.* 37, 3104 *C.* 1904 [2] 1210).
- 32) 2-Methyl-1,4-Phenylendi[Amidoessigsäure]. Sm. 150—160° (*D. R. P.* 145062 *C.* 1903 [2] 1037).
- 33) Aethyl ester d. 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 80—81° (*B.* 37, 1031 *C.* 1904 [1] 1208).
- $C_{11}H_{14}O_5N_2$ 10) 3,5-Dinitro-4-Oxy-1-tert. Amylbenzol. Sm. 65°. Ag (*A.* 327, 211 *C.* 1903 [1] 1407).
- $C_{11}H_{14}O_6Br_4$ 1) Diäthylester d. $\alpha\beta\delta\epsilon$ -Tetrabrom- γ -Ketopentan- $\alpha\epsilon$ -Dicarbonsäure. Sm. 171—172° (*B.* 37, 3297 *C.* 1904 [2] 1041).
- $C_{11}H_{14}O_6S$ 3) Zimmtsäureäthylesterhydrosulfonsäure. $K + 1\frac{1}{2}H_2O$ (*B.* 37, 4058 *C.* 1904 [2] 1649).
- 4) 4-Methoxybenzylidenacetonyhydrosulfonsäure. $Na + H_2O, K + H_2O$ (*B.* 37, 4051 *C.* 1904 [2] 1649).
- $C_{11}H_{14}O_6N_2$ C 48,9 — H 5,2 — O 35,5 — N 10,4 — M. G. 270.
- 1) Dimethyläther d. 2,6-Dinitro-3,4-Dioxy-1-Propylbenzol. Sm. 66,5° (*B.* 36, 862 *C.* 1903 [1] 1085).
- 2) Methylester d. *p*-Dinitro-1-Isopropyl-*p*-Dihydrobenzol-4-Carbonsäure (*M.* 25, 470 *C.* 1904 [2] 333).
- $C_{11}H_{14}O_6N_2$ 2) Verbindung (aus Formaldehyd u. Nitromalonsäureamid). Sm. 46° (*G.* 33 [1] 380 *C.* 1903 [2] 579).
- $C_{11}H_{14}N_2S$ 15) 2-Phenylimido-5-Aethyltetrahydrothiazol. Sm. 89—90° (*B.* 37, 2481 *C.* 1904 [2] 419).
- $C_{11}H_{14}N_3Cl$ 1) 2-Chlormethylat d. 5-Amido-3-Methyl-1-Phenylpyrazol. Sm. 192°. $2 + PtCl_4$ (*B.* 36, 3284 *C.* 1903 [2] 1190).
- $C_{11}H_{14}N_3Br$ 3) 2-Brommethylat d. 5-Amido-3-Methyl-1-Phenylpyrazol. Sm. 196° (*B.* 36, 3284 *C.* 1903 [2] 1190).
- $C_{11}H_{14}Cl_2J_2$ 1) $\alpha\beta$ -Dichloräthyl-4-Methyl-2-Aethylphenyljodoniumjodid. Sm. 96° (*J. pr.* [2] 69, 447 *C.* 1904 [2] 590).
- $C_{11}H_{14}Cl_3J$ 2) $\alpha\beta$ -Dichloräthyl-4-Methyl-2-Aethylphenyljodoniumchlorid. Sm. 171° u. Zers. $+ HgCl_2, 2 + PtCl_4$ (*J. pr.* [2] 69, 446 *C.* 1904 [2] 590).
- $C_{11}H_{15}ON$ *26) Aldehyd d. 4-Diäthylamidobenzol-1-Carbonsäure. Sm. 41° (*B.* 37, 861 *C.* 1904 [1] 1206).
- *37) Diäthylamid d. Benzolcarbonsäure. Sd. 164—165°, ₂₇ (*J. pr.* [2] 68, 354 *C.* 1903 [2] 1318; *B.* 37, 2815 *C.* 1904 [2] 648).
- *70) Isobutylamid d. Benzolcarbonsäure. Sm. 54° (*C. r.* 135, 974 *C.* 1903 [1] 232).
- 75) Aethyläther d. α -Aethylimido- α -Oxy- α -Phenylmethan. Sd. 221 bis 223°, ₇₈₀ (*Soc.* 83, 321 *C.* 1903 [1] 580, 876).
- 76) Nitril (aus Carvon). Sm. 93,5—94,5 (*C.* 1904 [1] 1082).
- $C_{11}H_{15}ON_8$ 19) γ -Semicarbazon- α -Phenylbutan. Sm. 142° (*B.* 37, 2313 *C.* 1904 [2] 217).
- 20) α -Semicarbazon- β -[4-Methylphenyl]propan. Sm. 152° (*C. r.* 137, 1261 *C.* 1904 [1] 445).
- 21) 2-Methylhydroxyd d. 5-Amido-3-Methyl-1-Phenylpyrazol. Salze siehe (*B.* 36, 3284 *C.* 1903 [2] 1190).
- $C_{11}H_{15}O_2N$ 82) 4-Nitro-1-tert. Amylbenzol. Sd. 152—154°, ₁₅ (*A.* 327, 224 *C.* 1903 [1] 1408).
- 83) 1-Keto-4-Acetyl-2-[α -Amidoäthyliden]-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 136° (*B.* 36, 2161 *C.* 1903 [2] 370).
- 84) 4-Methyläther d. α -Oximido- α -[4-Oxy-2-Methylphenyl]propan. Sm. 94—95° (*B.* 37, 3993 *C.* 1904 [2] 1640).
- 85) 4-Methyläther d. α -Oximido- α -[4-Oxy-3-Methylphenyl]propan. Sm. 99° (*B.* 37, 3991 *C.* 1904 [2] 1640).
- 86) 6-Methyläther d. α -Oximido- α -[6-Oxy-3-Methylphenyl]propan. Sm. 92° (*B.* 37, 3994 *C.* 1904 [2] 1640).
- 87) 2-Aethyläther d. α -Oximido- α -[2-Oxy-4-Methylphenyl]äthan. Sm. 132° (*C.* 1904 [1] 1597).
- 88) Campherchinoncyanhydrin. $K + xH_2O$ (*Soc.* 85, 1210 *C.* 1904 [2] 1119).
- 89) 2-Diäthylamidobenzol-1-Carbonsäure. Sm. 120—121°. $+ HJ$ (*M.* 25, 487 *C.* 1904 [2] 325).

- $C_{11}H_{15}O_2N$ 90) Aethylester d. r - α -Amido- β -Phenylpropionsäure. *Sd.* 143°₁₀. HCl, HNO₃, Pikrat (*B.* 34, 450; *B.* 37, 1266 *C.* 1904 [1] 1333).
- 91) Aethylester d. Aethylphenylamidoameisensäure. *Sd.* 130—130,5°₁₄ (*B.* 36, 2477 *C.* 1903 [2] 559).
- 92) Phenylester d. Diäthylamidoameisensäure. *Sd.* 150°₁₅ (270—271°) (*Bl.* [3] 31, 20 *C.* 1904 [1] 508; *Bl.* [3] 31, 691 *C.* 1904 [2] 198).
- 93) Dimethylamid d. 3-Oxybenzoläthyläther-1-Carbonsäure. *Fl.* (*A.* 329, 71 *C.* 1903 [2] 1440).
- $C_{11}H_{15}O_2N_2$ 22) γ -[4-Nitrophenyl]hydrazonpentan. *Sm.* 139—139,5° (141°) (*B.* 36, 703 *C.* 1903 [1] 818; *R.* 22, 435 *C.* 1904 [1] 15).
- 23) Methyläther d. β -Semicarbazon- α -[4-Oxyphenyl]propan. *Sm.* 175° (*A.* 332, 324 *C.* 1904 [2] 651).
- 24) Acetylphenyläthylsemicarbazid. *Sm.* 92° (*B.* 36, 1378 *C.* 1903 [1] 1344).
- $C_{11}H_{15}O_2Br$ *1) Formylbromcampher. *Sm.* 40—42° (*B.* 37, 2175 *C.* 1904 [2] 223).
- $C_{11}H_{15}O_2J$ *2) Formyljodcampher. *Sm.* 67—68° (*B.* 37, 2163 *C.* 1904 [2] 221).
- $C_{11}H_{15}O_3N$ *9) Methyläther d. 3-Dimethylamido-4-Oxybenzomethyläther-1-Carbonsäure. *Sd.* 288°. HJ (*A.* 325, 325 *C.* 1903 [1] 770).
- 34) β ,4-Dimethyläther d. α -Oximido- β -Oxy- β -[4-Oxyphenyl]propan. *Sm.* 48—49°. HCl (*A.* 332, 328 *C.* 1904 [2] 651).
- 35) Aethylester d. 6-Oxy-2-Methyl-5-Aethylpyridin-3-Carbonsäure. *Sm.* 190° (*G.* 33 [2] 168 *C.* 1903 [2] 1283).
- 36) Aethylester d. 6-Oxy-2,5-Dimethylpyridin-6-Methyläther-3-Carbonsäure + H₂O. *Sm.* 80° (wasserfrei) (*G.* 33 [2] 169 *C.* 1903 [2] 1283).
- $C_{11}H_{15}O_3N_2$ 7) Monosemicarbazon d. 3-Oxy-5-Isopropyl-2-Methyl-1,4-Benzochinon. *Sm.* 214—217° (*A.* 336, 29 *C.* 1904 [2] 1467).
- 8) Dimethyläther d. α -Semicarbazon- α -[2,5-Dioxyphenyl]äthan. *Sm.* 181—182° (*B.* 37, 3996 *C.* 1904 [2] 1641).
- 9) Dimethyläther d. α -Semicarbazon- α -[3,5-Dioxyphenyl]äthan. *Sm.* 192° (*B.* 36, 2302 *C.* 1903 [2] 578).
- 10) Aethyläther d. β -[4-Nitrophenyl]hydrazon- α -Oxypropan. *Sm.* 101 bis 102° (*G.* 33 [1] 317 *C.* 1903 [2] 281).
- 11) 2-Nitro-2-Oxy-1,2,3,5-Tetramethyl-2,3-Dihydrobenzimidazol. *Sm.* 195° (*B.* 36, 3972 *C.* 1904 [1] 178).
- 12) 5-oder-7-Nitro-2-Oxy-1,3,4,6-Tetramethyl-2,3-Dihydrobenzimidazol. *Sm.* 163° (*B.* 36, 3973 *C.* 1904 [1] 178).
- 13) α -Phenyl- γ -Aethylsemicarbazidoessigsäure. *Sm.* 195° (*B.* 36, 3885 *C.* 1904 [1] 27).
- 14) Aethylester d. α -Phenylsemicarbazidoessigsäure. *Sm.* 123° (*B.* 36, 3884 *C.* 1904 [1] 27).
- 15) Aethylester d. β -Phenylureidomethylamidoameisensäure. *Sm.* 190° (*J. pr.* [2] 70, 251 *C.* 1904 [2] 1464).
- $C_{11}H_{15}O_3N_3$ C 49,8 — H 5,7 — O 18,1 — N 26,4 — M. G. 265.
- 1) 8-Propionylamido-2,6-Diketo-1,3,7-Trimethylpurin. *Sm.* 220° (*D.R.P.* 139960 *C.* 1903 [1] 859).
- 2) Hydrazid d. β -Phenylureidoacetylamidoessigsäure. *Sm.* 206° u. Zers. HCl (*J. pr.* [2] 70, 255 *C.* 1904 [2] 1464).
- $C_{11}H_{15}O_3Cl$ 2) isom. Chloreamphocarbonsäure. *Sm.* 116—117° (*B.* 35, 4118 *C.* 1903 [1] 83).
- $C_{11}H_{15}O_3Br$ *2) Bromcamphocarbonsäure. *Sm.* 105—106° (109—110°) (*B.* 36, 1729 *C.* 1903 [2] 37).
- $C_{11}H_{15}O_4N$ 6) Dimethyläther d. 4-Nitro-2,5-Dioxy-1-Propylbenzol. *Sm.* 64° (*B.* 36, 856 *C.* 1903 [1] 1084).
- 7) Dimethyläther d. 6-Nitro-3,4-Dioxy-1-Propylbenzol. *Sm.* 81—82° (*B.* 36, 860 *C.* 1903 [1] 1085; *Ar.* 242, 88 *C.* 1904 [1] 1007).
- 8) Diäthyläther d. 2-Nitro-1-Dioxyethylbenzol (*B.* 36, 3653 *C.* 1903 [2] 1332).
- 9) 1-Diäthylamidoformiat d. 1,2,3-Trioxybenzol. *Sm.* 149° (*B.* 37, 109 *C.* 1904 [1] 584).
- $C_{11}H_{15}O_4N_2$ 3) 3,5-Dinitro-4-Amido-1-tert. Amylbenzol. *Sm.* 71—72° (*A.* 327, 214 *C.* 1903 [1] 1408).
- $C_{11}H_{15}O_4P$ 1) Benzoylderivat d. Methyläthylcarbinolphosphinsäure. Ag₂ (*C.* 1904 [2] 1708).

- $C_{11}H_{15}O_6N$ C 51,4 — H 5,8 — O 37,4 — N 5,4 — M. G. 257.
- 1) Diäthylester d. 2,6-Dioxy-1,4-Dihydropyridin-4,4-Dicarbon-säure + $\frac{1}{2}H_2O$. Sm. 195—196°. Na + $2H_2O$, Ba + $2H_2O$, Ag (M. 24, 739 C. 1904 [1] 179).
- $C_{11}H_{15}O_6N_3$ 2) 4-Nitrophenylhydrazon d. Arabinose. Sm. 168° (R. 22, 438 C. 1904 [1] 15).
- 3) 4-Nitrophenylhydrazon d. Xylose. Sm. 156° (R. 22, 438 C. 1904 [1] 15).
- $C_{11}H_{15}O_3N$ C 45,7 — H 5,2 — O 44,3 — N 4,8 — M. G. 289.
- 1) Triäthylester d. Stickstoffcarbonsäurediketocarbonsäure (Aethoxalylcarboxäthylloxamäthan). Sd. 182—184°₉₋₁₀ (B. 37, 3680 C. 1904 [2] 1495).
- $C_{11}H_{15}NS$ 7) Phenylamid d. Thioisovaleriansäure (B. 36, 588 C. 1903 [1] 830).
- $C_{11}H_{15}N_3S$ 8) α -Amido- β -Allyl- α -Benzylthioharnstoff. Sm. 61° (B. 37, 2328 C. 1904 [2] 313).
- $C_{11}H_{16}ON_2$ *29) Phenylhydrazid d. Isovaleriansäure. Sm. 104° (C. 1903 [1] 829; M. 24, 568 C. 1903 [2] 887).
- 37) γ -Ureidobutylbenzol. Sm. 119,5° (B. 36, 3000 C. 1903 [2] 949).
- 38) α -[d-sec. Butyl]- β -Phenylharnstoff. Sm. 150° (Ar. 242, 70 C. 1904 [1] 999).
- 39) 4-Diäthylamidobenzaldoxim. Sm. 93° (B. 37, 861 C. 1904 [1] 1206).
- 40) Limonen- β -Nitrosocyanid. Sm. 90—91° (Soc. 85, 931 C. 1904 [2] 705).
- 41) d-Limonennitrosocyanid. Sm. 90—91° (C. 1904 [2] 440).
- $C_{11}H_{16}O_2N_2$ *1) Pilocarpin (C. 1903 [1] 1270; Soc. 83, 454 C. 1903 [1] 930, 1143).
- *14) Isopilocarpin (Soc. 83, 458 C. 1903 [1] 930, 1143).
- 21) Phenylhydrazid d. α -Oxy- β -Methylpropan- β -Carbonsäure. Sm. 173° (Bl. [3] 31, 124 C. 1904 [1] 644).
- $C_{11}H_{16}O_2N_4$ 7) Dimethyläther d. Benzylidendi[α -Amido- α -Imido- α -Oxymethan]. Sm. 137°. $2HCl$ (C. 1904 [2] 29).
- 8) 2,6-Diketo-1,3,7-Triäthylpurin. Sm. 115° (C. 1904 [2] 1497).
- $C_{11}H_{16}O_2S$ *5) d-Methyläthylphenacylsulfhydrat. Pikrat, d-Bromcamphersulfonat (Soc. 81, 1557 C. 1903 [1] 23, 144).
- *6) l-Methyläthylphenacylsulfhydrat. Pikrat, d-Bromcamphersulfonat (Soc. 81, 1557 C. 1903 [1] 23, 144).
- $C_{11}H_{16}O_3N_2$ 8) Aethylester d. 3-Acetyl-4-Methyl-1-Aethylpyrazol-5-Carbonsäure. Sm. 57—58° (B. 36, 1131 C. 1903 [1] 1138).
- $C_{11}H_{16}O_3N_6$ C 47,1 — H 5,7 — O 17,2 — N 30,0 — M. G. 280.
- 1) Anhydro-2,6-Disemicarbazonhexahydrobenzol-1-Propionsäure. Sm. 278° u. Zers. (B. 37, 3825 C. 1904 [2] 1607).
- $C_{11}H_{16}O_3S$ *1) γ -Phenylpentan- β -Sulfonsäure. Ba + H_2O (B. 36, 3694 C. 1903 [2] 1427).
- *13) 2-Aethyl-1,3,5-Trimethylbenzol-4-Sulfonsäure. Sm. 78—80°. Na (B. 36, 1644 C. 1903 [2] 27).
- 18) α -Oxyisobutyl-4-Methylphenylsulfon (Am. 31, 166 C. 1904 [1] 875).
- 19) β -Phenylpentan- β -Sulfonsäure. Na, Ba + H_2O (B. 36, 3689 C. 1903 [2] 1426).
- 20) γ -Phenyl- β -Methylbutan- β -Sulfonsäure. Ba + $2H_2O$ (B. 36, 3692 C. 1903 [2] 1426).
- 21) 4-Isopropyl-1-Aethylbenzol- β -Sulfonsäure. Mg + $4H_2O$, Zn + $4H_2O$ (B. 36, 1641 C. 1903 [2] 27).
- 22) 5-Aethyl-1,2,4-Trimethylbenzol- β -Sulfonsäure. Sm. 70—72° (B. 36, 1642 C. 1903 [2] 27).
- $C_{11}H_{16}O_4N_2$ 7) Pyrazolon (aus 1-Oxy-5-Keto-1-Methylhexahydrobenzol-2,4-Dicarbon-säurediäthylester). Sm. 203° u. Zers. (A. 332, 16 C. 1904 [1] 1565).
- 8) Aethylester d. α -Cyan- α -Oxyessig-[β -Cyan- α -Aethoxypropyl]äther-säure. Sm. 63°; Sd. 220°₃₀ (C. 1904 [1] 159).
- 9) 3-Nitrobenzoat d. Oximidocampher. Sm. 89—90° (Soc. 85, 906 C. 1904 [2] 597).
- $C_{11}H_{16}O_4S$ 4) α -[4-Oxyphenyl]butanmethyläther- β -Sulfonsäure (B. 37, 3999 C. 1904 [2] 1641).
- 5) 3-Oxy-1-Propylbenzoläthyläther- β -Sulfonsäure. Ba (B. 37, 3990 C. 1904 [2] 1639).
- 6) 4-Oxy-1-Propylbenzoläthyläther- β -Sulfonsäure. Sm. 66—68°. Ba (B. 37, 3991 C. 1904 [2] 1640).

- $C_{11}H_{16}O_4S_2$ 2) β -Aethylsulfon- β -Phenylsulfonpropan. Sm. 78—80° (B. 36, 303 C. 1903 [1] 500).
3) 2,4-Di[Aethylsulfon]-1-Methylbenzol (J. pr. [2] 68, 335 C. 1903 [2] 1172).
- $C_{11}H_{16}O_5N_2$ 13) Verbindung (aus γ -Amido- δ -Imidohexan- $\beta\beta\epsilon\epsilon$ -Tetracarbonsäure). Sm. 199° (B. 35, 4127 C. 1903 [1] 136).
- $C_{11}H_{16}O_5Cl_2$ 1) Diäthylester d. β -Dichlor- γ -Ketopentan- $\alpha\epsilon$ -Dicarbonsäure. Sm. 60—75° (B. 37, 3297 C. 1904 [2] 1041).
- $C_{11}H_{16}O_5Br_2$ 1) Diäthylester d. $\beta\delta$ -Dibrom- γ -Ketopentan- $\delta\epsilon$ -Dicarbonsäure. Sm. 48,5—49° (B. 37, 3296 C. 1904 [2] 1041).
- $C_{11}H_{16}NCl$ 4) Dimethylallylphenylammoniumjodid. 2 + $PtCl_4$ (Soc. 85, 413 C. 1904 [1] 1410).
- $C_{11}H_{16}NJ$ *3) Jodmethylat d. 1-Methyl-1,2,3,4-Tetrahydrochinolin. Sm. 173° u. Zers. (B. 36, 2570 C. 1903 [2] 727).
6) Dimethylallylphenylammoniumjodid. Sm. 86—87° (Soc. 83, 1406 C. 1904 [1] 438; Soc. 85, 412 C. 1904 [1] 1409).
- $C_{11}H_{16}N_2S$ 7) α -[d.-sec. Butyl]- β -Phenylthioharnstoff. Sm. 88° (Ar. 242, 62 C. 1904 [1] 998).
- $C_{11}H_{17}ON$ 21) α -Dimethylamido- β -Oxy- β -Phenylpropan. Sd. 135—136°₃₃. HCl (C. r. 138, 767 C. 1904 [1] 1196).
22) Dimethylallylphenylammoniumhydroxyd. Jodid, d-Camphersulfonat (Soc. 83, 1406 C. 1904 [1] 438).
23) d-Bornylisocyanat. Sm. 69° (72°); Sd. 114—116°₁₄ (C. 1904 [1] 1605; Soc. 85, 687 C. 1904 [2] 332; Soc. 85, 1189 C. 1904 [2] 1125).
24) Neobornylisocyanat. Sm. 88° (Soc. 85, 1192 C. 1904 [2] 1125).
25) Methylhydroxyd d. 1-Methyl-1,2,3,4-Tetrahydrochinolin. Pikrat (B. 36, 2570 C. 1903 [2] 727).
26) Nitril (aus Pulegon). Sm. 160,5° (C. 1904 [1] 1083).
- $C_{11}H_{17}ON_3$ 17) Semicarbazon d. Keton $C_9H_{11}O$ (aus Pinen). Sm. 226—228° u. Zers. (C. 1903 [2] 372; Soc. 83, 1304 C. 1904 [1] 95).
- $C_{11}H_{17}OBr$ 2) Brommethylecampher. Sm. 65° (C. r. 136, 752 C. 1903 [1] 971).
3) Methylbromcampher. Sm. 61° (C. r. 136, 752 C. 1903 [1] 971).
- $C_{11}H_{17}O_2N$ *6) N-Methyläther d. Oximidocampher. Sd. 233°₄₃₀ u. Zers. (Soc. 85, 896 C. 1904 [2] 331, 596).
20) Dimethyläther d. 4-Amido-2,5-Dioxy-1-Propylbenzol. Sm. 94° (B. 36, 857 C. 1903 [1] 1084).
21) Dimethyläther d. 6-Amido-3,4-Dioxy-1-Propylbenzol. Sm. 59°; Sd. 169°₁₀ (B. 36, 860 C. 1903 [1] 1085).
22) O-Methyläther d. Oximidocampher. Sm. 107° (Soc. 85, 894 C. 1904 [2] 331, 596).
23) 2,5-Dimethyl-1-Butylpyrrol-3-Carbonsäure. Sm. 154° (C. 1903 [2] 1281).
24) Äthylester d. 2,5-Dimethyl-1-Äthylpyrrol-3-Carbonsäure. Sd. 286°₇₄₈ (C. 1903 [2] 1281).
- $C_{11}H_{17}O_2N_3$ *2) Monosemicarbazon d. Campherchinon. Sm. 229° (B. 36, 3190 C. 1903 [2] 939).
3) 5-Nitro-3,4-Diamido-1-tert. Amylbenzol. Sm. 82—83° (A. 327, 215 C. 1903 [1] 1408).
4) β -[5-Semicarbazon-3-Keto-4-Methylhexahydrophenyl]propen. Sm. 235° (A. 330, 270 C. 1904 [1] 947).
- $C_{11}H_{17}O_3Br$ 2) Formylbrommenthon. Fl. (B. 37, 2176 C. 1904 [2] 223).
3) Äthylester d. Brom- β -Campholytsäure. Sd. 164—168°₄₀ (Soc. 83, 860 C. 1903 [2] 573).
- $C_{11}H_{17}O_3N$ 33) Benzoat d. Oximidocampher. Sm. 136° (Soc. 83, 527 C. 1903 [1] 234, 1353; Soc. 85, 906 C. 1904 [2] 597).
34) Benzoat d. isom. Oximidocampher. Sm. 105—106° (Soc. 83, 526 C. 1903 [1] 234, 1353).
- $C_{11}H_{17}O_4N$ *5) Diäthylester d. α -Cyan- β -Methylpropan- $\alpha\beta$ -Dicarbonsäure (C. 1903 [1] 923; Soc. 85, 134 C. 1904 [1] 727).
10) ϵ -Äthylester d. γ -Cyan- β -Methylpentan- $\beta\epsilon$ -Dicarbonsäure. Sd. 245—250°₅₀ (Soc. 85, 138 C. 1904 [1] 728).
- $C_{11}H_{17}O_4P$ 3) Säure (aus d. Säure $C_4H_{11}O_3P$ u. Benzaldehyd) (C. r. 136, 235 C. 1903 [1] 564).
- $C_{11}H_{17}ClSi$ 1) Siliciumäthylpropylphenylchlorid. Sd. 240° (C. 1904 [1] 637).

- $C_{11}H_{19}O_2N_2$ *3) Nitril d. Phoronsäure (*Soc.* 83, 999 *C.* 1903 [2] 373, 666).
 7) O-Methyläther d. Oximidocampherxim. Sm. 188° (*Soc.* 85, 896 *C.* 1904 [2] 331, 596).
 8) Inn. Anhydrid d. i-1-[α -Amidoisocapronyl]tetrahydropyrrol-2-Carbonsäure (Leucylpyrolinanhydrid). Sm. 117—121° (*B.* 37, 3075 *C.* 1904 [2] 1210).
 9) Aethyl ester d. Cykloheptanopyrazolincarbonsäure. HCl (*B.* 37, 937 *C.* 1904 [1] 1072).
- $C_{11}H_{18}O_2Br_2$ 3) Aethyl ester d. Dibromdihydro- β -Campholytsäure. Fl. (*Soc.* 83, 860 *C.* 1903 [2] 573).
- $C_{11}H_{19}NJ$ 11) Dimethylpropylphenylammoniumjodid. Sm. 68,5° (*Soc.* 83, 1407 *C.* 1904 [1] 438).
- $C_{11}H_{19}ON$ *3) Formylbornylamin (*Soc.* 85, 1193 *C.* 1904 [2] 1125).
 *7) Methylamidocampher. Sd. 237—238°₇₆₀. (2HCl, PtCl₄) (*Soc.* 85, 898 *C.* 1904 [2] 596).
 10) Methyl- α -Anhydropulegonhydroxylamin. Sd. 102—104°. Pikrat (*B.* 37, 955 *C.* 1904 [1] 1087).
 11) l-Menthylisocyanat. Sd. 108—110°₀₋₁₃ (*Soc.* 85, 688 *C.* 1904 [2] 332).
- $C_{11}H_{19}ON_3$ *13) r-4-Semicarbazon-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 177—178° (*A.* 336, 38 *C.* 1904 [2] 1468).
 *25) Semicarbazon d. β -Cyklocitral. Sm. 166° (D.R.P. 138141 *C.* 1903 [1] 267).
 33) 3-Semicarbazon-5-Isopropyl-2-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 171—173° (*B.* 28, 1588). — *III, 385.
 34) 4-Semicarbazon-5-Isopropyl-2-Methyl-1,2,3,4-Tetrahydrobenzol (Semicarbazon d. Menthonon). Sm. 135—136° (*C.* 1903 [2] 1373).
 35) l-4-Semicarbazon-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 173° (*A.* 336, 38 *C.* 1904 [2] 1468).
 36) Semicarbazon d. α -Cyklocitral. Sm. 204° (D.R.P. 138141 *C.* 1903 [1] 267).
 37) Semicarbazon d. Calaminthon. Sm. 165° (*C. r.* 136, 388 *C.* 1903 [1] 714).
 38) Semicarbazon d. Keton $C_{10}H_{16}O$ (aus Terpinennitrosit). Sm. 173° (*A.* 313, 363). — *III, 386.
 39) Semicarbazon d. Keton $C_{10}H_{16}O$. Sm. 171—172° (*Soc.* 85, 643 *C.* 1904 [1] 1608; *C.* 1904 [2] 330).
 40) Semicarbazon d. Aldehyd $C_{10}H_{16}O$ (aus Pinen). Sm. 191° (*C.* 1903 [2] 372; *Soc.* 83, 1303 *C.* 1904 [1] 95).
- $C_{11}H_{19}O_2N$ 13) Amidoformiat d. Geraniol. Sm. 124° (D.R.P. 58129). — *III, 345.
- $C_{11}H_{19}O_2N_3$ *6) 4-Semicarbazon-6-Oxy-5-Methyl-2-Isopropyl-1,2,3,4-Tetrahydrobenzol. Sm. 175—176° (*B.* 36, 3576 *C.* 1903 [2] 1362).
- $C_{11}H_{19}O_3Br$ 4) Aethyl ester d. 2-Brom-1,1,2-Trimethyl-R-Pentamethylen-5-Carbonsäure. Sd. 165—170°₇₀ (*Soc.* 85, 145 *C.* 1904 [1] 728).
- $C_{11}H_{19}O_3N_8$ 12) α -[3-Semicarbazon-4-Methylhexahydrophenyl]propionsäure. Sm. 178—179° (*B.* 36, 769 *C.* 1903 [1] 836).
 13) Hexahydrobenzylester d. α -Semicarbazonpropionsäure. Sm. 182° (*C. r.* 138, 985 *C.* 1904 [1] 1398).
- $C_{11}H_{19}O_4N_3$ 3) 2,5-Diketo-4,4-Dimethyl-1-Aethyltetrahydroimidazol-3- α -Amidoisobuttersäure. Sm. 140° (*C.* 1904 [2] 1029).
- $C_{11}H_{19}O_4Cl$ 3) Diäthylester d. γ -Chlor- β -Methylbutan- β -Dicarbonsäure. Fl. (*Soc.* 83, 17 *C.* 1903 [1] 443).
- $C_{11}H_{19}O_5N_3$ *2) β -Antipepton (β -Trypsinfibrinpepton) (*H.* 38, 258, 269 *C.* 1903 [2] 210).
 $C_{11}H_{19}O_5N_3$ C 45,7 — H 6,6 — O 33,2 — N 14,5 — M. G. 289.
 1) Diäthylester d. Carboxylamidoacetylamilidoacetylamilidoessigsäure (α -Carbäthoxydiglycylglycinäthylester). Sm. 163—164° (*B.* 36, 2099 *C.* 1903 [1] 1304; *B.* 36, 2110 *C.* 1903 [2] 345).
 2) isom. Diäthylester d. Carboxylamidoacetylamilidoacetylamilidoessigsäure (β -Carbäthoxydiglycylglycinäthylester). Sm. 148—150° (*B.* 36, 2102 *C.* 1903 [1] 1304).
- $C_{11}H_{19}O_6N_5$ C 41,6 — H 6,0 — O 30,3 — N 22,1 — M. G. 317.
 1) Amid d. Carboxylamidoacetylamilidoacetylamilidoacetylamilidoessigsäure-N-Aethyl ester (Carbäthoxyltriglycylglycinamid). Sm. 275° u. Zers. (*B.* 36, 2104 *C.* 1903 [1] 1304).

- $C_{11}H_{19}NS_2$ 2) Bornylamidodithioameisensäure. Bornylaminsalz (*C.* 1904 [1] 1605; *Soc.* 85, 1194 *C.* 1904 [2] 1125).
- $C_{11}H_{20}ON_2$ *2) d-Bornylharnstoff. HNO_3 , H_2SO_4 (*Soc.* 85, 1189 *C.* 1904 [2] 1125).
- $C_{11}H_{20}ON_4$ 2) Semicarbazon d. α -Anhydropulegonhydroxylamin. Sm. 153—154° (*B.* 37, 954 *C.* 1904 [1] 1087).
- $C_{11}H_{20}O_3N_2$ 2) i-1-[α -Ameidoisocapronyl]tetrahydropyrrol-2-Carbonsäure (i-Leucylpyrolin). Sm. 116—119° (*B.* 37, 3074 *C.* 1904 [2] 1209).
- $C_{11}H_{20}O_4N_2$ 2) Aethylester d. δ -Diamido- β - η -Diketooctan- γ -Carbonsäure. Sm. 35° (*A.* 332, 140 *C.* 1904 [2] 191).
- $C_{11}H_{20}O_5N_2$ 2) α -Carbäthoxyamidooacetyl-amido- γ -Methylvaleriansäure. Sm. 135,5 bis 136,5° (*B.* 36, 2602 *C.* 1903 [2] 619).
- $C_{11}H_{21}ON$ 14) δ -Oximido- δ -Hexahydrophenyl- β -Methylbutan. Sm. 77° (*C. r.* 139, 345 *C.* 1904 [2] 704).
- 15) d-P-Menthylamid d. Ameisensäure. Sm. 117—118° (*C.* 1904 [2] 1046).
- $C_{11}H_{21}ON_3$ 15) δ -Semicarbazon- β - ζ -Dimethyl- β -Okten (Semicarbazon d. Rhodinal). Sm. 115° (*C. r.* 122, 737). — *III, 350.
- 16) Semicarbazon d. P-Menthon. Sm. 187—188° (*C.* 1904 [2] 1046).
- $C_{11}H_{21}O_2N$ 9) γ -Oximido- β -Keto- δ -Methyldekan. Sd. 147—149°₁₀ (*Bl.* [3] 31, 1168 *C.* 1904 [2] 1701).
- 10) Methylester d. 1,2,2,5,5-Pentamethyltetrahydropyrrol-3-Carbonsäure. Sd. 218°. HJ (*B.* 36, 3361 *C.* 1903 [2] 1185).
- 11) Methylester d. d-2-Propylhexahydro-1-Pyridyllessigsäure. Sd. 244 bis 245° (*B.* 37, 3637 *C.* 1904 [2] 1510).
- 12) Aethylester d. 2,2,5,5-Tetramethyltetrahydropyrrol-3-Carbonsäure. Sd. 217°₇₄₈ (*B.* 36, 3360 *C.* 1903 [2] 1185).
- $C_{11}H_{21}O_2Br$ 3) Aethylester d. α -Bromoktan- α -Carbonsäure. Sm. 23—24° (*C. r.* 138, 698 *C.* 1904 [1] 1066).
- $C_{11}H_{21}O_3N$ 5) Monamid d. cis- β - ζ -Dimethylheptan- γ -Dicarbonsäure. Sm. 146°. Ag (*Am.* 30, 238 *C.* 1903 [2] 934).
- $C_{11}H_{21}O_3N_3$ 8) 2-Semicarbazon-4-[α - β -Dioxyisopropyl]-1-Methylhexahydrobenzol. Sm. 187° (*B.* 28, 2705). — *III, 375.
- 9) α -Semicarbazon- β -Methyloktan- α -Carbonsäure. Sm. 121—121,5 (*Bl.* [3] 31, 1153 *C.* 1904 [2] 1707).
- $C_{11}H_{21}O_6N$ 1) δ -[β - γ - δ - ϵ -Pentaoxyhexyl]imido- β -Ketopentan (Acetylacetonnannamin). Sm. 172° (*C. r.* 138, 505 *C.* 1904 [1] 872).
- 2) Acetylacetonglukamin. Sm. 172° (*C.* 1904 [1] 431).
- $C_{11}H_{22}ON_2$ 12) Amid d. ϵ -Dimethylamido- β - ϵ -Dimethyl- β -Hexen- γ -Carbonsäure. Sm. 98°; Sd. 170°₁₃ (*B.* 36, 3363 *C.* 1903 [2] 1186).
- $C_{11}H_{22}O_2N_6$ 2) δ -Semicarbazon- ζ -Semicarbazido- β - ζ -Dimethyl- β -Hepten. Sm. 221° (*B.* 36, 4382 *C.* 1904 [1] 455).
- 3) Campherphoronsemicarbazon + Semicarbazid. Sm. 135°. Pikrat (*A.* 331, 327 *C.* 1904 [1] 1567).
- $C_{11}H_{23}ON$ *3) β -Oximidooundekan. Sm. 46—47° (*Soc.* 81, 1593 *C.* 1903 [1] 29, 162).
- 15) α -Oximidooundekan. Sm. 72° (*Bl.* [3] 29, 1206 *C.* 1904 [1] 355).
- 16) 3,4,4,6-Tetramethyl-2-Isopropyltetrahydro-1,3-Oxazin. Sd. 190 bis 194°₇₅₀. (2HCl, PtCl₄), (HCl, AuCl₃) (*M.* 25, 856 *C.* 1904 [2] 1240).
- 17) Diisoamylamid d. Ameisensäure. Sd. 132—132,6° (*B.* 36, 2476 *C.* 1903 [2] 559).
- $C_{11}H_{23}ON_3$ 2) δ -Semicarbazonmethyl- β - ζ -Dimethylheptan. Sm. 140° (*Bl.* [3] 31, 306 *C.* 1904 [1] 1133).
- $C_{11}H_{24}O_4S_2$ 3) DiIsoamylsulfonmethan. Sm. 138—139° (*B.* 36, 298 *C.* 1903 [1] 499).
- $C_{11}H_{24}O_6S_4$ 1) β - β -Triäthylsulfonpentan. Sm. 106° (*B.* 37, 504 *C.* 1904 [1] 882).
- $C_{11}H_{24}N_4S$ 4) α -[d-sec. Butyl]- β -Hexylthioharnstoff. Fl. (*Ar.* 242, 61 *C.* 1904 [1] 998).
- $C_{11}H_{25}O_4P$ 1) Säure (aus Oenanthaldehyd). Sm. 147° (*C. r.* 128, 1708 *C.* 1904 [2] 422).
- $C_{11}H_{25}ClS$ *1) Methyldiamylsulfinchlorid (*J. pr.* [2] 66, 464 *C.* 1903 [1] 561).

- $C_{11}H_7O_2NBr_4$ 1) Tetrabromisopropylimid d. Benzol-1,2-Dicarbonsäure. Sm. 155,5 bis 156,5° (Sachs, Dissert., Berlin 1898). — *II, 1053.
- $C_{11}H_7O_2N_2Br_3$ 1) 2,6-Dibrom-4-Nitrophenylpyridoniumbromid. Zers. oberh. 280°. + Br₂ (*J. pr.* [2] 70, 36 *C.* 1904 [2] 1235).

- $C_{11}H_7O_3NS_2$ 1) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]tetrahydrothiazol. Zers. bei 245° (*M.* 24, 516 *C.* 1903 [2] 837).
- $C_{11}H_7O_4N_2Br$ 1) Amid d. α -Cyan- β -Brom- β -[3,4-Dioxyphenyl]akryl-3,4-Methylenäthersäure. Sm. 245° (*C.* 1903 [2] 715).
- $C_{11}H_7NClBr_3$ 1) Brom-4-Chlor-2,6-Dibromphenylat d. Pyridin. Sm. 270—271° u. Zers. + Br_2 (*A.* 333, 339 *C.* 1904 [2] 1151).
- $C_{11}H_7NCl_2Br_2$ 1) Chlor-4-Chlor-2,6-Dibromphenylat d. Pyridin. 2 + $PtCl_4$ (*A.* 333, 339 *C.* 1904 [2] 1151).
- $C_{11}H_9ONCl$ 5) 1-Naphtylchloramid d. Ameisensäure. Sm. 63° (*Am.* 29, 307 *C.* 1903 [1] 1166).
- 6) 2-Naphtylchloramid d. Ameisensäure. Sm. 75° (*Am.* 29, 307 *C.* 1903 [1] 1166).
- $C_{11}H_9ONBr_3$ 1) 2,4,6-Tribromphenylhydroxyd d. Pyridin. Salze siehe (*A.* 333, 336 *C.* 1904 [2] 1151).
- $C_{11}H_9O_3N_2Br_2$ 2) ϵ -[2,6-Dibrom-4-Nitrophenyl]imido- α -Oxy- $\alpha\gamma$ -Pentadien. Sm. 165—166° u. Zers. (*J. pr.* [2] 70, 38 *C.* 1904 [2] 1235).
- $C_{11}H_9O_3N_2S_2$ 1) 2-Thiocarbonyl-4-Keto-5-[3-Nitrobenzyliden]-3-Methyltetrahydrothiazol. Sm. 233° (*M.* 25, 170 *C.* 1904 [1] 895).
- 2) 2-Thiocarbonyl-4-Keto-5-[4-Nitrobenzyliden]-3-Methyltetrahydrothiazol. Sm. 205° (*M.* 25, 171 *C.* 1904 [1] 895).
- $C_{11}H_9O_4N_2S$ 1) 1,3-Naphtylharnstoff-6-Sulfonsäure (D.R.P. 146914 *C.* 1903 [2] 1486).
- 2) 2-Phenylimido-4-Ketotetrahydrothiazol-5-Ketocarbonsäure. Sm. 221—222°. Ag_2 (*C.* 1903 [1] 1258).
- $C_{11}H_9O_4N_3Cl$ *1) 2,4-Dinitrochlorphenylat d. Pyridin. Sm. 201° (190°). 2 + $PtCl_4$ (*J. pr.* [2] 68, 259 *C.* 1903 [2] 1064; *A.* 330, 361 *C.* 1904 [2] 1147; *A.* 333, 296 *C.* 1904 [2] 1147).
- $C_{11}H_9O_4N_3Br$ 1) 2,4-Dinitrobromphenylat d. Pyridin. Sm. 225° u. Zers. + Br_2 (*A.* 333, 299 *C.* 1904 [2] 1147).
- $C_{11}H_9O_4N_3J$ 1) 2,4-Dinitrojodphenylat d. Pyridin. + J_2 (*A.* 333, 300 *C.* 1904 [2] 1147).
- $C_{11}H_9O_4N_6S$ 1) 7-Phenylazo-6-Ketopurin-7⁴-Sulfonsäure. Sm. noch nicht bei 270° (*B.* 37, 705 *C.* 1904 [1] 1562).
- $C_{11}H_9O_5N_6S$ 1) 7-Phenylazo-2,6-Diketopurin-7⁴-Sulfonsäure. Sm. noch nicht bei 265° (*B.* 37, 703 *C.* 1904 [1] 1562).
- $C_{11}H_9ONS_2$ 1) 2-Thiocarbonyl-4-Keto-5-Benzyliden-3-Methyltetrahydrothiazol. Sm. 169° (*M.* 25, 169 *C.* 1904 [1] 895).
- $C_{11}H_9ON_3S_2$ 2) Benzoylchrysean. Sm. 212—213° u. Zers. (*B.* 36, 3547 *C.* 1903 [2] 1379).
- $C_{11}H_9O_2NS_2$ 1) Methylläther d. 2-Thiocarbonyl-4-Keto-5-[4-Oxybenzyliden]tetrahydrothiazol. Sm. 130—142° u. Zers. (*M.* 24, 515 *C.* 1903 [2] 837).
- $C_{11}H_9O_2N_2Cl$ 3) Chlor-3-Nitrophenylat d. Pyridin. 2 + $PtCl_4$, + $AuCl_3$ (*J. pr.* [2] 70, 41 *C.* 1904 [2] 1235).
- 4) Chlor-4-Nitrophenylat d. Pyridin. + $FeCl_3$, 2 + $PtCl_4$, + $AuCl_3$ (*J. pr.* [2] 70, 30 *C.* 1904 [2] 1234).
- 5) 5-Chlor-3-Methyl-1-Phenylpyrazol-1²-Carbonsäure. Sm. 169°. Ca, Ba + $3H_2O$ (*B.* 37, 2230 *C.* 1904 [2] 228).
- 6) 3-Cyanphenylmonamid d. Bernsteinsäuremonochlorid. Sm. 80° (*C.* 1904 [2] 103).
- $C_{11}H_9O_2N_2Br$ 2) Brom-3-Nitrophenylat d. Pyridin. Sm. 229—230°. + $FeCl_3$ (*J. pr.* [2] 70, 40 *C.* 1904 [2] 1235).
- 3) Brom-4-Nitrophenylat d. Pyridin. + $FeCl_3$ (*J. pr.* [2] 70, 31 *C.* 1904 [2] 1234).
- $C_{11}H_9O_4N_3S$ 1) 7-Phenylazo-2-Amido-6-Ketopurin-7⁴-Sulfonsäure. Sm. noch nicht bei 270° (*B.* 37, 705 *C.* 1904 [1] 1562).
- $C_{11}H_{10}ONCl$ 10) 2-Chlorphenylhydroxyd d. Pyridin. Salze siehe (*A.* 333, 334 *C.* 1904 [2] 1150).
- 11) 4-Chlorphenylhydroxyd d. Pyridin. Salze siehe (*A.* 333, 332 *C.* 1904 [2] 1150).
- 12) 1-Chlor-4-Oxy-3-Aethylisochinolin. Sm. 124—125° (*B.* 37, 1693 *C.* 1904 [1] 1525).

- $C_{11}H_{10}ONBr$ *4) Aethyläther d. 5-Brom-6-Oxychinolin. Sm. 80—81° (*B.* 36, 459 *C.* 1903 [1] 590).
- $C_{11}H_{10}ON_2Br_2$ 1) 6,8-Dibrom-4-Keto-2-Propyl-3,4-Dihydro-1,3-Benzodiazin. Sm. 238—240° (*C.* 1903 [2] 1195).
2) 6,8-Dibrom-4-Keto-2-Isopropyl-3,4-Dihydro-1,3-Benzodiazin. Sm. 259—260° (*C.* 1903 [2] 1195).
3) 6,8-Dibrom-4-Keto-2-Methyl-3-Aethyl-3,4-Dihydro-1,3-Benzodiazin. Zers. bei 170° (*C.* 1903 [2] 1194).
- $C_{11}H_{10}ON_2S$ 6) Methyläther d. 2-Merkapto-4-Keto-6-Phenyl-3,4-Dihydro-1,3-Diazin. Sm. 240° (*Ann.* 29, 490 *C.* 1903 [1] 1310).
- $C_{11}H_{10}O_2NBr$ 4) Methyläther d. 5-Brom-6-Oxy-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 168—170° (*B.* 36, 461 *C.* 1903 [1] 590).
- $C_{11}H_{10}O_2NJ$ *3) Jodmethylat d. Chinolin-4-Carbonsäure, Sm. 222° u. Zers. (*M.* 24, 201 *C.* 1903 [2] 48).
- $C_{11}H_{10}O_2N_2Br_2$ 4) *P*-Dibrom-3-Nitro-2-Methyl-1-Aethylindol. Sm. 203° (*G.* 34 [2] 63 *C.* 1904 [2] 710).
- $C_{11}H_{10}O_2N_2S$ 4) Aethylester d. 5-Phenyl-1,2,3-Thiodiazol-4-Carbonsäure. Sm. 42° (*A.* 333, 4 *C.* 1904 [2] 780).
- $C_{11}H_{10}O_3NBr$ 5) Aethylester d. 5-Brom-3-Oxyindol-2-Carbonsäure. Sm. 152—154° (*D.R.P.* 138845 *C.* 1903 [1] 547).
- $C_{11}H_{10}O_3N_6S$ 1) 7-Phenylazo-6-Amidopurin-7⁴-Sulfonsäure. Sm. noch nicht bei 270° (*B.* 37, 706 *C.* 1904 [1] 1563).
- $C_{11}H_{10}O_4N_2S$ 1) Monoformyl-1,4-Diamidonaphtalin-6-oder-7-Sulfonsäure (*D.R.P.* 138030, 138031 *C.* 1903 [1] 109).
- $C_{11}H_{10}O_5N_8Cl_3$ 1) Verbindung (aus d. Verb. $C_{11}H_9O_5N_8$). Sm. 95° u. Zers. (*A.* 333, 310 *C.* 1904 [2] 1148).
- $C_{11}H_{10}O_5N_8Cl_5$ 1) Verbindung (aus d. Verb. $C_{11}H_9O_5N_8Cl_3$) (*A.* 333, 311 *C.* 1904 [2] 1148).
- $C_{11}H_{10}O_5N_4S$ 1) 1-Phenylazo-2-Methylimidazol-4[oder 5]-Carbonsäure-1⁴-Sulfonsäure + 2H₂O. Zers. oberh. 120° (*B.* 37, 702 *C.* 1904 [1] 1562).
- $C_{11}H_{10}O_6NCl$ 4) Diacetat d. 4-Chlor-3-Nitro-1-Dioxy-methylbenzol. Sm. 97° (*C.* 1899 [1] 836). — *III, II.
- 5) Diacetat d. 4[oder 6]-Chlor-6[oder 4]-Nitro-2,5-Dioxy-1-Methylbenzol. Sm. 105—107° (*A.* 328, 316 *C.* 1903 [2] 1247).
- $C_{11}H_{10}O_6N_3Cl$ 1) Diazochlorid d. Iso-β-[2-Nitro-4-Amidophenyl]propan-α-γ-Dicarbonsäure (*B.* 36, 2676 *C.* 1903 [2] 948).
- $C_{11}H_{10}N_2Br_2S$ 1) 6,8-Dibrom-4-Thiocarbonyl-2-Methyl-3-Aethyl-3,4-Dihydro-1,3-Benzodiazin. Zers. bei 305° (*C.* 1903 [2] 1195).
- $C_{11}H_{11}ONBr_2$ 4) *P*-Dibrom-2-Keto-3-Isopropyl-2,3-Dihydroindol. Sm. 142° (*M.* 24, 575 *C.* 1903 [2] 887).
- $C_{11}H_{11}ON_2Br$ *1) 4-Brom-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 117° (*A.* 331, 231 *C.* 1904 [1] 1220).
- $C_{11}H_{11}ON_3Br_2$ 1) 5-Oxy-3-[αβ-Dibrompropyl]-1-Phenyl-1,2,4-Triazol. Sm. 128° (*B.* 36, 1101 *C.* 1903 [1] 1140).
- $C_{11}H_{11}ON_5S$ 1) 4-[α-Semicarbazonyl]-5-Phenyl-1,2,3-Thiodiazol. Sm. 207° u. Zers. (*A.* 325, 174 *C.* 1903 [1] 645).
2) 4-[α-Semicarbazonyl]-5-Methyl-1,2,3-Thiodiazol. Sm. 217° u. Zers. (*A.* 325, 173 *C.* 1903 [1] 645).
3) isom. 4-[α-Semicarbazonyl]-5-Methyl-1,2,3-Thiodiazol. Sm. 149—150° (*A.* 325, 173 *C.* 1903 [1] 645).
- $C_{11}H_{11}O_2N_2Cl$ 1) Lakton d. δ-Chlor-α-Phenylhydrazon-γ-Oxyvaleriansäure. Sm. 183—184° (*C.r.* 137, 15 *C.* 1903 [2] 508).
- $C_{11}H_{11}O_2N_3S$ 2) Methyläther d. 5-Merkapto-3-Methyl-1-[4-Nitrophenyl]pyrazol. Sm. 135—136° (*A.* 331, 232 *C.* 1904 [1] 1220).
- $C_{11}H_{11}O_3N_2Br$ 3) Methyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydrochinolin. Sm. 81° (*J. pr.* [2] 45, 184, 185). — IV, 265.
- $C_{11}H_{11}O_3N_3S$ 1) 2-Phenylimido-5-Oxy-2,3-Dihydro-1,3,4-Thiodiazol-3-[Aethyl-Carbonsäure]. Sm. 220° u. Zers. (*C.* 1904 [2] 1027).
- $C_{11}H_{11}O_5BrS$ 1) αγ-Sulton d. β-Brom-α-Oxy-α-Phenylbutan-δ-Carbonsäure-γ-Sulfonsäure (*Ann.* 31, 253 *C.* 1904 [1] 1081).
- $C_{11}H_{11}N_2BrS$ 2) Methyläther d. 4-Brom-5-Merkapto-3-Methyl-1-Phenylpyrazol. Sm. 52° (*A.* 331, 229 *C.* 1904 [1] 1220).
- $C_{11}H_{12}ONCl$ 6) Verbindung (aus Chlordimethyläther u. Chinolin). 2 + PtCl₄ (*A.* 334, 54 *C.* 1904 [2] 948).

- $C_{11}H_{12}ONBr$ 6) 8-Brom-5-Formylamido-1, 2, 3, 4-Tetrahydronaphtalin. Sm. 164,5° (Soc. 85, 745 C. 1904 [2] 447).
- $C_{11}H_{12}ON_2S$ 18) 2-[2, 4-Dimethylphenyl]imido-4-Ketotetrahydrothiazol. Sm. 157° (C. 1903 [2] 110).
- 19) 2, 4-Dimethylphenylamid d. Rhodanessigsäure. Sm. 98° (C. 1903 [2] 110).
- $C_{11}H_{12}ON_2Se$ 1) 2, 4-Dimethylphenylamid d. Selencyanessigsäure. Sm. 148° (Ar. 241, 207 C. 1903 [2] 104).
- 2) 2, 5-Dimethylphenylamid d. Selencyanessigsäure. Sm. 144—146° (Ar. 241, 208 C. 1903 [2] 104).
- $C_{11}H_{12}O_2NCl$ 5) Methyl-3-Chlor-4-Propionylamidophenylketon. Sm. 115° (Soc. 85, 342 C. 1904 [1] 1404).
- 6) Methyl-4-Propionylchloramidophenylketon. Sm. 42° (C. 1903 [1] 832).
- 7) Aethyl-4-Acetylchloramidophenylketon. Sm. 75° (C. 1903 [1] 1223).
- $C_{11}H_{12}O_2NBr$ 2) Aethyl-4-Acetylbromamidophenylketon. Sm. 115° (C. 1903 [1] 1223).
- 3) α -oder- β -Bromäthyl-4-Acetylamidophenylketon. Sm. 122° (D.R.P. 105199 C. 1900 [1] 240). — *III, 114.
- $C_{11}H_{12}O_2N_2S$ 5) 5-Methylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 88—90° (A. 331, 228 C. 1904 [1] 1220).
- $C_{11}H_{12}O_2N_4S$ 2) 1-Ureido-2-Thiocarbonyl-4-Keto-5-Methyl-3-Phenyltetrahydroimidazol. Sm. 206° u. Zers. (C. 1904 [2] 1027).
- 3) Amid d. 2-Phenylimido-5-Oxy-2, 3-Dihydro-1, 3, 4-Thiodiazol-3-[Aethyl- α -Carbonsäure]. Sm. 223° u. Zers. (C. 1904 [2] 1028).
- $C_{11}H_{12}O_3NCl$ 8) α -Chloracetylamido- β -Phenylpropionsäure. Sm. 130—131° (B. 37, 3313 C. 1904 [2] 1306).
- 9) Acetat d. 5-Chlor-3-Acetylamido-4-Oxy-1-Methylbenzol. Sm. 162—163° (A. 328, 313 C. 1903 [2] 1247).
- 10) 4-Chlorphenylmonamid d. Propan- β - β -Dicarbonsäure. Sm. 160° (Soc. 83, 1248 C. 1903 [2] 1420).
- $C_{11}H_{12}O_3NBr$ 6) Aethylester d. 4-Brombenzoylamidoessigsäure. Sm. 123° (B. 36, 1647 C. 1903 [2] 32).
- $C_{11}H_{12}O_3N_2S$ *4) Thiopyrintrioxyd (A. 331, 206 C. 1904 [1] 1218).
- $C_{11}H_{12}O_4NCl$ 3) 1- α -Chloracetylamido- β -[4-Oxyphenyl]propionsäure (1-Chlor-acetyltyrosin). Sm. 155—156° (B. 37, 2494 C. 1904 [2] 425).
- $C_{11}H_{12}O_4N_2S$ 3) O-Methyläther-S-Aethyläther d. 3-Nitrobenzoylimidomerkapto-oxy-methan. Sm. 78° (C. 1904 [1] 1559).
- $C_{11}H_{12}NBrMg$ 1) Chinolinäthylmagnesiumbromid (B. 37, 3091 C. 1904 [2] 995).
- $C_{11}H_{12}ONS_2$ 5) Benzylester d. Acetylmethylamidodithioameisensäure. Sm. 80° (Bl. [3] 29, 60 C. 1903 [1] 447).
- $C_{11}H_{12}ON_3S$ 3) 2-[4-Dimethylamidophenyl]imido-4-Ketotetrahydrothiazol (C. 1903 [1] 1258).
- 4) 1-Amido-2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Phenyltetrahydroimidazol. Sm. 173° (C. 1904 [2] 1027).
- $C_{11}H_{12}O_2NS_2$ 3) Gem. Anhydrid d. 4-Oxybenzylmethyläther-1-Carbonsäure u. Dimethylamidodithioameisensäure (N-Dimethyl-S-p-Anisoyldithio-urethan). Sm. 78—80° (B. 36, 3525 C. 1903 [2] 1326).
- $C_{11}H_{12}O_3NS$ 9) Acetyl-2-Methylphenylamid d. Aethensulfonsäure. Sm. 69° (B. 36, 3630 C. 1903 [2] 1327).
- 10) Acetyl-4-Methylphenylamid d. Aethensulfonsäure. Sm. 87° (B. 36, 3629 C. 1903 [2] 1327).
- $C_{11}H_{12}O_8N_2Cl$ 3) β -Chlorid d. α -Phenylhydrazin- α - β -Dicarbonsäure- α -Aethylester. Fl. (B. 36, 3889 C. 1904 [1] 28).
- $C_{11}H_{14}ONCl$ 11) Nitrosochlorid d. γ -Phenyl- β -Penten. Sm. 117° (B. 36, 3693 C. 1903 [2] 1426).
- 12) Nitrosochlorid d. δ -Phenyl- β -Methyl- β -Buten. Sm. 146—147° (B. 37, 2315 C. 1904 [2] 217).
- $C_{11}H_{14}O_2NCl$ 7) Nitrosochlorid d. α -[4-Oxy-2-Methylphenyl]propenmethyläther. Sm. 108° (B. 37, 3994 C. 1904 [2] 1640).
- 8) Nitrosochlorid d. α -[4-Oxy-3-Methylphenyl]propenmethyläther. Sm. 117° (B. 37, 3992 C. 1904 [2] 1640).

- $C_{11}H_{14}O_2NCl$ 9) Nitrosochlorid d. α -[3-Oxyphenyl]propenäthyläther. Sm. 122 bis 123° (B. 37, 3990 C. 1904 [2] 1639).
- $C_{11}H_{14}O_2N_2Br_2$ *1) Dibrompilocarpin (Soc. 83, 461 C. 1903 [1] 930, 1143).
- $C_{11}H_{14}O_2N_2S$ 13) 2,4-Dimethylphenylthiohydantoinsäure. Sm. 179° (C. 1903 [2] 110).
- 14) Amid d. Phenylamidothioessigsäure-2-Carbonsäureäthylester. Sm. 188° (D.R.P. 141698 C. 1903 [1] 1244).
- $C_{11}H_{14}O_2N_3Cl$ 2) Monosemicarbazon d. 6-Chlor-5-Isopropyl-2-Methyl-1,3-Benzochinon. Sm. 230° (A. 336, 27 C. 1904 [2] 1467).
- $C_{11}H_{14}O_2N_3J$ 1) Jodmethylat d. β -Nitro-1,2,5-Trimethylbenzimidazol. Sm. 297° + J_2 (B. 36, 3972 C. 1904 [1] 178).
- 2) Jodmethylat d. β -Nitro-1,4,6-Trimethylbenzimidazol. Sm. 214° + J_2 (B. 36, 3973 C. 1904 [1] 178).
- $C_{11}H_{14}O_2Cl_2S$ 1) $\beta\gamma$ -Dichlor- α -[2,4-Dimethylphenyl]sulfonpropan. Fl. (J. pr. [2] 68, 310 C. 1903 [2] 1115).
- 2) Nitrosochlorid d. 3,4-Dioxy-1-Propenylbenzol-3,4-Dimethyläther. Sm. 110° u. Zers. (A. 332, 336 C. 1904 [2] 652).
- $C_{11}H_{14}O_6N_2S_2$ 1) Amid d. 4-Methyl-1,3-Phenylendi[Sulfonessigsäure]. Sm. 230° u. Zers. (J. pr. [2] 68, 338 C. 1903 [2] 1172).
- $C_{11}H_{14}Cl_2BrJ$ 1) $\alpha\beta$ -Dichloräthyl-4-Methyl-2-Aethylphenyljodoniumbromid. Sm. 150° u. Zers. (J. pr. [2] 69, 447 C. 1904 [2] 590).
- $C_{11}H_{15}ONBr_2$ 1) Diäthyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 141–142° (A. 332, 221 C. 1904 [2] 203).
- $C_{11}H_{15}ONS$ 8) 4-Aethoxyphenylamid d. Thiopropionsäure. Sm. 74–75° (B. 37, 876 C. 1904 [1] 1004).
- $C_{11}H_{15}ON_3Cl_2$ 1) 4-Semicarbazon-1-Dichlormethyl-1,2,5-Trimethyl-1,4-Dihydrobenzol. Sm. 192° (B. 35, 4217 C. 1903 [1] 162).
- $C_{11}H_{15}ON_3S_2$ 1) Methyl ester d. α -Aethylamidofornyl- α -Phenylhydrazin- β -Dithiocarbonsäure. Sm. 122° (B. 36, 1376 C. 1903 [1] 1344).
- $C_{11}H_{15}OCIS$ *1) i-Methyläthylphenacylsulfinchlorid. $HgCl_2$ (Soc. 81, 1559 C. 1903 [1] 144).
- 2) i-Methyläthylphenacylsulfinchlorid. 2 + $PtCl_4$ (Soc. 81, 1558 C. 1903 [1] 144).
- $C_{11}H_{15}OJS$ 1) i-Methyläthylphenacylsulfinjodid. HgJ_2 (Soc. 81, 1559 C. 1903 [1] 23, 144).
- $C_{11}H_{15}O_2NS$ *1) Piperidid d. Benzolsulfonsäure. Sm. 92–93° (B. 36, 2706 C. 1903 [2] 829).
- 2) Sultam d. 1-[α -Oxyisopropyl]benzol-2-Sulfonsäureäthylamid. Sm. 40° (B. 37, 3257 C. 1904 [2] 1031).
- $C_{11}H_{15}O_2N_3S$ 1) α -Imido- α -[4-Dimethylamidophenyl]amidodimethylsulfid- α' -Carbonsäure (4-Dimethylamidophenylthiohydantoinsäure) (C. 1903 [1] 1258).
- $C_{11}H_{15}O_2ClS$ 3) Chlorid d. β -Phenylpentan- β -Sulfonsäure. Sd. 194°₁₂ (B. 36, 3689 C. 1903 [2] 1426).
- 4) Chlorid d. γ -Phenylpentan- β -Sulfonsäure. Fl. (B. 36, 3694 C. 1903 [2] 1427).
- 5) Chlorid d. 4-Isopropyl-1-Aethylbenzol- β -Sulfonsäure. Sd. 158°₁₀ (B. 36, 1641 C. 1903 [2] 27).
- $C_{11}H_{15}O_2BrS$ 1) β - oder γ -Brom- α -[2,4-Dimethylphenyl]sulfonpropan. Fl. (J. pr. [2] 68, 311 C. 1903 [2] 1115).
- $C_{11}H_{15}O_2ClS$ 1) Chlorid d. 3-Oxy-1-Propylbenzoläthyläther- β -Sulfonsäure. Fl. (B. 37, 3990 C. 1904 [2] 1639).
- $C_{11}H_{15}O_3ClHg$ 1) Verbindung (aus Methyl Eugenol). Sm. 112–113° (B. 36, 3581 C. 1903 [2] 1363).
- $C_{11}H_{16}ON_2S$ *3) α -[β -Oxybutyl]- β -Phenylthioharnstoff. Sm. 100,5° (B. 37, 2480 C. 1904 [2] 419).
- $C_{11}H_{16}O_2NCl$ 2) Chlormethylat d. 2-Dimethylamidobenzol-1-Carbonsäure + $AuCl_3$ (B. 37, 410 C. 1904 [1] 943).
- $C_{11}H_{16}O_2NJ$ *1) Methyl ester d. Dimethylphenyljodammoniumessigsäure. Sm. 98 bis 99° (B. 37, 417 C. 1904 [1] 943).
- 2) Jodmethylat d. 2-Dimethylamidobenzol-1-Carbonsäuremethyl ester. Sm. 153° (B. 37, 410 C. 1904 [1] 943).
- 3) Jodmethylat d. 3-Dimethylamidobenzol-1-Carbonsäuremethyl ester. Sm. 220–221° u. Zers. (B. 37, 411 C. 1904 [1] 943).

- $C_{11}H_{18}O_2NJ$ 4) Jodmethylat d. 4-Dimethylamidobenzol-1-Carbonsäure. Sm. 170° u. Zers. (B. 37, 412 C. 1904 [1] 943).
- $C_{11}H_{18}O_3NJ$ 5) Acetat d. Trimethyl-4-Oxyphenylammoniumjodid. Sm. 192 bis 193° (A. 334, 310 C. 1904 [2] 986).
- $C_{11}H_{16}O_3N_2S$ 1) Jodmethylat d. Methyladamascenin + H_2O . Sm. 164–166° (Ar. 242, 319 C. 1904 [2] 457).
- $C_{11}H_{16}O_3N_2S$ 2) Jodmethylat d. 3-Dimethylamido-4-Oxybenzol-1-Carbonsäure. Sm. 190° (A. 325, 330 C. 1903 [1] 770).
- $C_{11}H_{16}O_3N_2S$ 3) sym-Di[Dimethylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure (Am. 30, 289 C. 1903 [2] 1121).
- $C_{11}H_{16}O_3N_2S$ 4) uns-Di[Aethylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure (Am. 30, 288 C. 1903 [2] 1121).
- $C_{11}H_{16}O_3N_2S$ 1) γ -Lakton d. γ -Chlor- β -Semicarbazon- ϵ -Oxyhexan- α - γ -Dicarbonsäure- α -Aethylester. Sm. 118–119° (C. r. 136, 435 C. 1903 [1] 698).
- $C_{11}H_{17}ON_2Cl$ 3) Phenylamid d. Trimethylchlorammoniumessigsäure + H_2O . Sm. 204–207° (wasserfrei). + $HgCl_2$, 2 + $PtCl_4$, + $AuCl_3$ (Ar. 241, 122 C. 1903 [1] 1023).
- $C_{11}H_{17}ON_2Br$ 4) Verbindung (aus Trimethylphenacylammoniumchloridoxim). 2 + $PtCl_4$, + $AuCl_3$ (Ar. 237, 232). — *III, 101.
- $C_{11}H_{17}ON_2Br$ 2) Phenylamid d. Trimethylbromammoniumessigsäure. Sm. 201 bis 203° (Ar. 241, 122 C. 1903 [1] 1023).
- $C_{11}H_{17}O_2NS$ 24) Amid d. β -Phenylpentan- β -Sulfonsäure. Sm. 66–67° (B. 36, 3690 C. 1903 [2] 1426).
- $C_{11}H_{17}O_2NS$ 25) Amid d. γ -Phenylpentan- β -Sulfonsäure. Sm. 89–90° (B. 36, 3694 C. 1903 [2] 1427).
- $C_{11}H_{17}O_3NS$ 8) Amid d. 3-Oxy-1-Propylbenzoläthyläther- β -Sulfonsäure. Sm. 84° (B. 37, 3990 C. 1904 [2] 1639).
- $C_{11}H_{17}O_3NS$ 9) Amid d. 4-Oxy-1-Propylbenzoläthyläther- β -Sulfonsäure. Sm. 97–98° (B. 37, 3991 C. 1904 [2] 1640).
- $C_{11}H_{17}O_3NS$ 10) Aethylamid d. 1-[α -Oxyisopropyl]benzol-2-Sulfonsäure + $\frac{1}{2}H_2O$. Sm. 109–110° (B. 37, 3255 C. 1904 [2] 1031).
- $C_{11}H_{17}O_3BrS$ 1) Methyl ester d. Bromdihydrocampholensulfocarbonsäure. Sm. 192–193° u. Zers. (C. 1903 [2] 38; Soc. 83, 1112 C. 1903 [2] 794).
- $C_{11}H_{18}ON_3Cl$ 1) Semicarbazon d. β -Chlorcampher. Sm. 183° (C. 1403 [2] 373).
- $C_{11}H_{18}ON_3NBr$ 1) 1-1-[α -Bromisocapronyl]tetrahydropyrrol-2-Carbonsäure. Sm. 154–158° (B. 37, 3074 C. 1904 [2] 1209).
- $C_{11}H_{18}ON_3NBr$ 2) r-1-[α -Bromisocapronyl]tetrahydropyrrol-2-Carbonsäure. Sm. 159,5–163° (B. 37, 3073 C. 1904 [2] 1209).
- $C_{11}H_{19}O_3N_3S$ 1) 2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Aethyltetrahydroimidazol-1- α -Amidoisobuttersäure. Sm. 110° (C. 1904 [2] 1028).
- $C_{11}H_{20}O_3NJ$ 2) Jodmethylat d. r-Ecgoninmethylester. Sm. 182–182,5° (A. 326, 69 C. 1903 [1] 841).
- $C_{11}H_{21}ONS$ *1) Amid d. Menthylxanthogensäure (C. 1904 [1] 1347).
- $C_{11}H_{22}ONJ$ *2) Jodmethylat d. Lupinin (Ar. 235, 279). — *III, 663.
- $C_{11}H_{22}ON_2Cl_2$ 1) Di[Chlormethylat] d. 2-Di[Dimethylamido]methylfuran. 2 + 2 $AuCl_3$ (A. 335, 378 C. 1904 [2] 1406).
- $C_{11}H_{22}ON_2J_2$ 2) Di[Chlormethylat] d. 2-Di[Dimethylamido]methylfuran (A. 335, 377 C. 1904 [2] 1406).
- $C_{11}H_{23}ON_2J$ 1) Jodmethylat d. 1,2,2,5,5-Pentamethyltetrahydropyrrol-3-Carbonsäureamid. Zers. bei 255° (B. 36, 3362 C. 1903 [2] 1186).
- $C_{11}H_{25}O_2N_2P$ 1) Diäthylmonamid d. 1-Piperidylphosphinsäuremonoäthylester. Fl. (A. 326, 195 C. 1903 [1] 820).
- $C_{11}H_9ONClBr_2$ 1) 4-Chlor-2,6-Dibromphenylhydroxyd d. Pyridin. Salze siehe (A. 333, 339 C. 1904 [2] 1151).
- $C_{11}H_{10}O_2N_2BrJ$ 1) Jodäthylat d. 3-Brom-5-Nitrochinolin. Sm. 195° (213°) (J. pr. [2] 39, 306).
- $C_{11}H_{11}ONBrJ$ 1) Jodmethylat d. 5-Brom-6-Oxychinolinmethyläther. Sm. 220° u. Zers. (B. 36, 460 C. 1903 [1] 590).
- $C_{11}H_{11}O_2N_2BrS$ 1) 4-Brom-5-Methylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 150 bis 151° (A. 331, 231 C. 1904 [1] 1220).

- $C_{11}H_{12}O_5NBrS$ * 1) 4-Bromphenylmerkaptursäure. Sm. 152—153° (*C.* 1903 [2] 1431).
 $C_{11}H_{17}O_5NBrP$ 1) 2-Brom-4-Methylphenylmonamid d. Phosphosäurediäthylester. Sm. 102° (*A.* 326, 239 *C.* 1903 [1] 868).
 $C_{11}H_{26}ON_2JS$ 1) Aethyläther d. Methyl-di[Diäthylamido]oxyphosphoniumjodid. Fl. (*A.* 326, 162 *C.* 1903 [1] 761).

C_{12} -Gruppe.

- $C_{12}H_8$ * 1) Acenaphtylen. Sm. 92—93° (*C.* 1903 [2] 44).
 $C_{12}H_{10}$ * 1) Acenaphen. Sm. 95° (*C.* 1903 [2] 44).
 * 2) Biphenyl. Sm. 70,5° (*A.* 332, 40 *C.* 1904 [2] 39; *B.* 37, 2531 *C.* 1904 [2] 447).
 $C_{12}H_{14}$ 7) δ -Phenyl- β -Methyl- β -Pentadien. Sd. 218—220°₇₅₁ u. Zers. (*B.* 37, 2305 *C.* 1904 [2] 215).
 8) Kohlenwasserstoff (aus 1-Oxy-1-Phenylhexahydrobenzol). Sd. 133°₂₀ (*C. r.* 138, 1323 *C.* 1904 [2] 219).
 $C_{12}H_{16}$ * 2) α -[4-Isopropylphenyl]propen. Sd. 225—235° (*B.* 36, 2237 *C.* 1903 [2] 438).
 * 5) 1,2,3,4,5,6-Hexahydrobiphenyl. Sm. 0°; Sd. 238°₇₇₀ (*C.* 1903 [2] 989).
 * 6) α -[2,4-Dimethylphenyl] α -Buten. Sd. 226—228° (*B.* 36, 2237 *C.* 1903 [2] 438).
 * 7) α -[2,4,6-Trimethylphenyl]propen. Sd. 223—224°₇₄₅ (*B.* 37, 927 *C.* 1904 [1] 1209).
 10) α -Phenyl- β -Hexen. Sd. 108°₁₆ (*B.* 37, 2313 *C.* 1904 [2] 216).
 11) β -Phenyl- γ -Hexen. Sd. 84°₁₀ (*B.* 36, 1405 *C.* 1903 [1] 1347).
 12) δ - α -Phenyl- γ -Methyl- α -Penten. Sd. 100—103°₉ (*B.* 37, 653 *C.* 1904 [1] 937).
 13) γ -Phenyl- β -Methyl- β -Penten. Sd. 206—207°₇₈₅ (*B.* 37, 1725 *C.* 1904 [1] 1515).
 14) δ -Phenyl- β -Methyl- β -Penten. Sd. 210—211°₇₅₅ (*B.* 37, 2306 *C.* 1904 [2] 215).
 15) α -Phenyl- γ -Methyl- β -Penten. Sd. 120°₂₀ (226°₇₄₉) (*B.* 37, 2313 *C.* 1904 [2] 216; *B.* 37, 2317 *C.* 1904 [2] 217).
 16) β -Phenyl- δ -Methyl- β -Penten. Sd. 207°₇₆₄ (*B.* 37, 2508 *C.* 1904 [2] 216).
 17) α -Phenyl- β -Aethyl- α -Buten. Sd. 204—206° u. ger. Zers. (*B.* 37, 1724 *C.* 1904 [1] 1515).
 18) α -[4-Methylphenyl]- γ -Methyl- α -Buten. Sd. 221—222° (*B.* 37, 1089 *C.* 1904 [1] 1260).
 19) 2,5-Diäthylphenyläthen. Sd. 96—97°₁₂ (*B.* 36, 1634 *C.* 1903 [2] 25).
 $C_{12}H_{18}$ * 13) 2-Propyl-1,3,5-Trimethylbenzol. Sd. 221° (*B.* 37, 1719 *C.* 1904 [1] 1489).
 * 14) 1,3,5-Triäthylbenzol. Sd. 215°₇₅₅. + Al_2Cl_6 (*B.* 36, 1634 *C.* 1903 [2] 26; *J. pr.* [2] 68, 212 *C.* 1903 [2] 1114).
 * 23) 1,2,4-Triäthylbenzol. Sd. 217—218°₇₈₅ (*B.* 36, 1634 *C.* 1903 [2] 25).
 24) δ -Phenyl- β -Methylpentan. Sd. 197° (*B.* 37, 2308 *C.* 1904 [2] 216).
 25) δ - α -Phenyl- γ -Methylpentan. Sd. 220°₇₅₇ (*B.* 37, 654 *C.* 1904 [1] 938).
 $C_{12}H_{20}$ 9) 4-Isobutyliden-1,1,5-Trimethyl-2,3-Dihydro-R-Penten (Dimethylcampholanden). Sd. 188—190° (*Bl.* [3] 31, 462 *C.* 1904 [1] 1516).
 10) Kohlenwasserstoff (aus 1-Oxydodekahydrobiphenyl). Sd. 124°₂₀ (*C. r.* 138, 1323 *C.* 1904 [2] 219).
 $C_{12}H_{22}$ 8) Kohlenwasserstoff (aus Petroleum). Sd. 205—210°₇₈₀ (*C.* 1904 [1] 61).

— 12 II —

- $C_{12}H_4Cl_6$ 1) 2,4,6,2',4',6'-Hexachlorbiphenyl. Sm. 112,5° (*A.* 332, 56 *C.* 1904 [2] 41).
 $C_{12}H_6O_2$ * 1) 7,8-Acenaphtenchinon (*G.* 33 [1] 36 *C.* 1903 [1] 881).
 $C_{12}H_6O_3$ * 2) Anhydrid d. Naphtalin-1,8-Dicarbonsäure Sm. 266° (*B.* 36, 967 *C.* 1903 [1] 1087; *G.* 33 [2] 129 *C.* 1903 [2] 1181).
 $C_{12}H_6O_4$ 3) Anhydrid d. 4-Oxynaphtalin-1,8-Dicarbonsäure. Sm. 257° (*A.* 327, 87 *C.* 1903 [1] 1228).

- $C_{12}H_8O_{12}$ *1) Benzolhexacarbonsäure (*Bl.* [3] 31, 135 *C.* 1904 [2] 724).
 *2) Thiophansäure. Sm. 242—245° (*A.* 327, 343 *C.* 1903 [2] 509).
- $C_{12}H_8N_2$ 8) Diazoacenaphtylen. Sm. 164° (*G.* 33 [1] 48 *C.* 1903 [1] 882).
- $C_{12}H_8Cl_4$ 1) 2,4,2',4'-Tetrachlorbiphenyl. Sm. 83° (*A.* 332, 55 *C.* 1904 [2] 40).
 2) 3,4,3',4'-Tetrachlorbiphenyl. Sm. 172°; Sd. 230°₅₀ (*Soc.* 85, 7 *C.* 1904 [1] 376, 728).
- $C_{12}H_8J_2$ 1) 3,3',P-Triioddiphenyljodoniumjodid (*B.* 37, 1309 *C.* 1904 [1] 1340).
- $C_{12}H_8O_4$ *3) 2-Phenyl-1,4-Benzochinon. Sm. 114° (*B.* 37, 879 *C.* 1904 [1] 1142).
- 18) 1,8-Lakton d. 4- oder -5-Oxy-1-Dioxy-methylnaphtalin-8-Carbonsäure. Sm. 100° (*A.* 327, 89 *C.* 1903 [1] 1228).
- $C_{12}H_8O_7$ *1) Purpurogallincarbonsäure. Sm. noch nicht bei 330° (*Soc.* 83, 199 *C.* 1903 [1] 640; *Soc.* 85, 247 *C.* 1904 [1] 798, 1005).
- $C_{12}H_8N_2$ *6) Phenazon. Sm. 156° (2HCl, ZnCl₂) (*B.* 37, 25 *C.* 1904 [1] 523).
- $C_{12}H_8Cl_2$ *1) 4,4'-Dichlorbiphenyl. Sm. 148°; Sd. 315° (*A.* 332, 54 *C.* 1904 [2] 40).
 2) 3,3'-Dichlorbiphenyl. Sm. 29° (23°); Sd. 298° (322—324°) (*Soc.* 85, 7 *C.* 1904 [1] 376, 728; *A.* 332, 54 *C.* 1904 [2] 40).
- $C_{12}H_8Br_2$ 4) 3,3'-Dibrombiphenyl. Sm. 53° (*A.* 332, 57 *C.* 1904 [2] 41).
- $C_{12}H_8J_4$ 1) Di(3-Jodphenyl)jodoniumjodid. Sm. 141° (*B.* 37, 1308 *C.* 1904 [1] 1340).
- $C_{12}H_8N$ *1) Carbazol. Sm. 238° (*A.* 332, 84 *C.* 1904 [1] 1571).
 7) 7,8-Imidoacenaphten. Sm. 97°. HCl, (2HCl, PtCl₄), Acetat (*G.* 33 [1] 49 *C.* 1903 [1] 882).
- $C_{12}H_8N_3$ *4) 2-Phenyl-2,1,3-Benzotriazol. Sm. 109,5° (*B.* 36, 3825 *C.* 1904 [1] 18).
- $C_{12}H_8Br$ *1) 3-Bromacenaphten. Sm. 52°; Sd. 335°. Pikrat (*A.* 327, 85 *C.* 1903 [1] 1228).
 1) 4-Jodbiphenyl. Sm. 111° (*A.* 332, 52 *C.* 1904 [2] 40).
 2) 3-Joddiphenyljodoniumjodid. Zers. bei 89° (*B.* 37, 1307 *C.* 1904 [1] 1340).
- $C_{12}H_{10}O$ *1) 2-Oxybiphenyl. Sm. 67,7° (*Am.* 29, 125 *C.* 1903 [1] 705).
 *2) 4-Oxybiphenyl (*Am.* 29, 124 *C.* 1903 [1] 705).
 *3) Diphenyläther. Sm. 26,9—27°; Sd. 258,97° (*C.* 1904 [1] 1204).
 7) 3-Oxybiphenyl. Sm. 78° (*B.* 36, 4085 *C.* 1904 [1] 268).
- $C_{12}H_{10}O_2$ 24) 3,4-Dioxybiphenyl? Sm. 136—136,5°; Sd. oberh. 360° (*Am.* 29, 128 *C.* 1903 [1] 705).
 25) isom. P-Dioxybiphenyl. Sm. 147,5—148,5° (*Am.* 29, 129 *C.* 1903 [1] 705).
 26) 2-Oxydiphenyläther. Sm. 105—106° (*Am.* 29, 127 *C.* 1903 [1] 705).
 27) Methyl-4-Oxy-1-Naphtylketon. Sm. 98° (*B.* 25, 3534). — *III, 141.
 28) Benznocecaradiencarbonsäure. Sm. 165—166°. Ag (*B.* 36, 3506 *C.* 1903 [2] 1273).
 29) Lakton d. δ-Oxy-α-Phenyl-αγ-Pentadien-β-Carbonsäure. Sm. 60 bis 63° (*A.* 319, 187 *C.* 1902 [1] 106). — *II, 986.
- $C_{12}H_{10}O_3$ *3) 3,3'-Dioxydiphenyläther (*B.* 36, 3051 *C.* 1903 [2] 1008).
 *27) Anhydrid d. β-Phenyl-β-Buten-γδ-Dicarbonsäure. Sm. 112—114° (*B.* 37, 1622 *C.* 1904 [1] 1419).
 32) 2-Oxynaphtalinmethyläther-1-Carbonsäure. Sm. 176° u. Zers. (*Bl.* [3] 17, 311; *C. r.* 136, 617 *C.* 1903 [1] 881; *Bl.* [3] 31, 32 *C.* 1904 [1] 519). — *II, 989.
 33) ε-Keto-α-Phenyl-αγ-Pentadien-ε-Carbonsäure + H₂O (Cinnamylidenbrenztraubensäure). Sm. 75° (107° wasserfrei) (*B.* 37, 1319 *C.* 1904 [1] 1344).
 34) 1-Keto-3-Methylin-2-Methylcarbonsäure. Sm. 154—155° (*B.* 37, 1620 *C.* 1904 [1] 1419).
 35) Lakton d. 3-Keto-1-Oxy-1-Methyl-2,3-Dihydroinden-2-Methylcarbonsäure. Sm. 179,5° (*B.* 37, 1621 *C.* 1904 [1] 1419).
 36) Benzylester d. Isobrenzschleimsäure. Sm. 71° (*C. r.* 137, 992 *C.* 1904 [1] 291).
- $C_{12}H_{10}O_4$ *22) Anhydrid d. α-Keto-α-Phenylbutan-γδ-Dicarbonsäure. Sm. 146° (*C.* 1903 [2] 944).
 38) Acetat d. 6-Oxymethyl-1,2-Benzpyron. Sm. 108—109°; Sd. 205 bis 207°₁₀ (*B.* 37, 193 *C.* 1904 [1] 660).
- $C_{12}H_{10}O_5$ 28) Anhydrid d. Triacetsäurelakton. Sd. 170—172°₁₈ (*B.* 37, 3390 *C.* 1904 [2] 1220).

- $C_{12}H_{10}O_5$ 29) Aldehyd d. 4, 5-Dioxy-3-Acetoxy-1-Aethenylbenzol-4, 5-Methylen-äther-2-Carbonsäure. Sm. 84—85° (B. 36, 1533 C. 1903 [2] 52).
- 30) Aethylester d. 4-Oxy-1, 2-Benzpyron-3-Carbonsäure. Sm. 101° (B. 36, 464 C. 1903 [1] 636).
- 31) Verbindung (aus 1, 2, 3-Triox-9, 10-Anthrachinon). Sm. 197°. Ag_2 (M. 22, 588). — *III, 310.
- $C_{12}H_{10}O_6$ 18) trans-1-Phenyl-R-Trimethylen-1², 3, 3-Tricarbonsäure. Sm. 273 bis 275° u. Zers. Ag_3 (B. 36, 3507 C. 1903 [2] 1274).
- 19) 7, 8-Dioxy-1, 4-Benzpyrondimethyläther-2-Carbonsäure. Sm. 272° (B. 36, 127 C. 1903 [1] 468).
- 20) $\alpha\gamma$ -Lakton d. α -Oxy- α -Phenylpropan- $\beta\gamma\gamma$ -Tricarbonsäure + 4H₂O (Phenylparakoncocarbonsäure). Sm. 188°: K (B. 25, 1153; B. 36, 3776 Ann. C. 1904 [1] 41). — II, 2018.
- 21) Diacetat d. 5, 6-Dioxy-2-Keto-1, 2-Dihydrobenzofuran. Sm. 106° (B. 37, 820 C. 1904 [1] 1151).
- $C_{12}H_{10}O_7$ 4) Areolatin. Sm. 270° (J. pr. [2] 68, 59 C. 1903 [2] 513).
- $C_{12}H_{10}N_2$ *1) Azobenzol. (2HCl, PtCl₄) (D.R.P. 141535 C. 1903 [1] 1283; B. 36, 4109 C. 1904 [1] 272; C. 1904 [2] 1383).
- *4) 3-Amidocarbazol. Sm. 254°. Pikrat (A. 332, 99 C. 1904 [1] 1570).
- *6) 2-Methyl- β -Naphthimidazol. Chromat (Soc. 83, 1196 C. 1903 [2] 1444).
- 13) 4-[β -Phenyläthenyl]-1, 3-Diazin. Sm. 72—74°; Sd. 325—327°₇₈₈ (B. 36, 3384 C. 1903 [2] 1193).
- 14) 2-Methyl- α -oder- β -Naphthimidazol + H₂O. Sm. 264° u. Zers. HCl + H₂O, H₂CrO₄ + 2H₂O, Pikrat (Soc. 83, 1190 C. 1903 [2] 1444).
- 15) Nitril d. 1-Naphtylamidoessigsäure. Sm. 45—46° (B. 37, 4082 C. 1904 [2] 1723).
- 16) Nitril d. 2-Naphtylamidoessigsäure. Sm. 82—85° (B. 37, 4082 C. 1904 [2] 1723).
- 17) Verbindung (aus Tryptophan) (C. 1903 [2] 1012).
- $C_{12}H_{10}N_4$ *6) 2, 3-Diamido-5, 10-Naphtdiazin (B. 35, 4302 C. 1903 [1] 344).
- *8) 3, 8-Diamido-5, 6-Naphtisodiazin (Diamidodiphenazon). Sm. 265° (C. 1904 [1] 1614; B. 37, 28 C. 1904 [1] 523).
- $C_{12}H_{10}S_2$ *1) Diphenyldisulfid (Bl. [3] 29, 762 C. 1903 [2] 620).
- $C_{12}H_{10}S_3$ 2) [4-Merkaptophenyl]sulfid. Sm. 116,5°; Sd. 147,5—148,5°₁₁. Na₂, Pb (B. 22, 361 C. 1904 [1] 23).
- $C_{12}H_{10}Hg$ *1) Quecksilberdiphenyl. Sm. 120° (B. 37, 1127 C. 1904 [1] 1258).
- $C_{12}H_{10}Se_2$ *1) Diphenyldiselenid. Sm. 62° (Bl. [3] 29, 763 C. 1903 [2] 620).
- $C_{12}H_{11}N$ *3) 4-Amidobiphenyl (B. 37, 881 C. 1904 [1] 1143).
- *4) 3-Amidoacenaphten. Sm. 108° (A. 327, 81, 94 C. 1903 [1] 1227).
- 10) 3-Amidobiphenyl. Sm. 30°; Sd. 254°. H₂SO₄ (B. 36, 4084 C. 1904 [1] 268; B. 37, 882 C. 1904 [1] 1143).
- 11) 3-Benzylpyridin. Sm. 34; Sd. 286—287°₇₄₀. (2HCl, PtCl₄), Pikrat (B. 36, 2709, 2711 C. 1903 [2] 837).
- 12) 2-Methyl-4-Phenylpyridin. Sd. 280°. Pikrat (B. 36, 2458 C. 1903 [2] 671).
- $C_{12}H_{11}N_3$ *1) Diazoamidobenzol (B. 36, 910 C. 1903 [1] 974; C. r. 137, 1264 C. 1904 [1] 439).
- *6) 4-Amidoazobenzol. HCl (B. 36, 3965 C. 1904 [1] 162).
- *8) 5-Amido-2-Methyl- α -oder- β -Naphthimidazol + 3¹/₂(9¹/₂)H₂O. Zers. bei 265°. Acetat + H₂O (Soc. 83, 1185 C. 1903 [2] 1443).
- *12) isom. 5-Amido-2-Methyl- α -oder- β -Naphthimidazol. (2HCl, HgCl₂ + 5H₂O), Oxalat (Soc. 83, 1198 C. 1903 [2] 1445).
- $C_{12}H_{12}O$ *2) 2-Oxy-1, 4-Dimethylnaphtalin (C. 1903 [2] 1377).
- *9) γ -Keto- α -Phenyl- α -Hexin. Sd. 148—150°₁₈ (C. r. 137, 796 C. 1904 [1] 43).
- $C_{12}H_{12}O_2$ *1) Dimethyläther d. 2, 7-Dioxynaphtalin. Sm. 135°; Sd. 319°₇₃₁ (A. 327, 117 C. 1903 [1] 1214).
- *16) Dimethyläther d. 2, 3-Dioxynaphtalin. Sm. 116,5° (B. 36, 569 C. 1903 [1] 702).
- 18) Dimethyläther d. 1, 5-Dioxynaphtalin. Sm. 174—175° (B. 36, 569 C. 1903 [1] 702).
- 19) Dimethyläther d. 2, 6-Dioxynaphtalin. Sm. 149,5° (B. 36, 570 C. 1903 [1] 702).

- $C_{12}H_{12}O_2$ 20) 7 - Oxy - 4 - Methylen - 2,3 - Dimethyl - 1,4 - Benzpyran. HCl + H_2O , (2HCl, $PtCl_4$), (HCl, $AuCl_3$) Pikrat (*B.* 36, 191 *C.* 1903 [1] 469; *B.* 37, 1792 *C.* 1904 [1] 1611).
- 21) α -Phenyl- $\alpha\gamma$ -Pentadien- ϵ -Carbonsäure. Sm. 111–112°. Ca + $2H_2O$, Ba + $2H_2O$, Ag (*A.* 331, 162 *C.* 1904 [1] 1211).
- 22) 1-[β -Phenyläthenyl]-R - Trimethylen-2-Carbonsäure. Sm. 130° (*B.* 37, 2104 *C.* 1904 [2] 104).
- 23) Methylester d. α -Phenyl- $\alpha\gamma$ -Butadien- δ -Carbonsäure. Sm. 71° (*A.* 336, 198 *C.* 1904 [2] 1731).
- $C_{12}H_{12}O_3$ *25) γ -Keto- α -Phenyl- α -Penten- ϵ -Carbonsäure. Sm. 120° (123°) (*B.* 23, 74; *A.* 258, 129; *B.* 37, 1320 *C.* 1904 [1] 1345). — *II, 986.
- 28) 5,7-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran + H_2O . HCl + H_2O , Pikrat (*B.* 37, 1799 *C.* 1904 [1] 1612).
- 29) 6,7-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran. HCl + $2\frac{1}{2}H_2O$, Pikrat (*B.* 37, 1796 *C.* 1904 [1] 1612).
- 30) 7,8-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran. HCl + H_2O , Pikrat (*B.* 37, 1797 *C.* 1904 [1] 1612).
- 31) ϵ -Oxy- α -Phenyl- $\alpha\gamma$ -Pentadien- ϵ -Carbonsäure. Sm. 145° (*B.* 37, 1320 *C.* 1904 [1] 1344).
- 32) Acetat d. γ -Keto- α -[4-Oxyphenyl]- α -Buten. Sm. 80–81° (*B.* 36, 134 *C.* 1903 [1] 458).
- $C_{12}H_{12}O_4$ *5) cis-trans- β -Phenyl- β -Buten- $\gamma\delta$ -Dicarbonsäure. Sm. 171° (*B.* 37, 1619 *C.* 1904 [1] 1419).
- *35) δ -Phenyl- α -Buten- $\alpha\alpha$ -Dicarbonsäure. Sm. 124° (*B.* 37, 3123 *C.* 1904 [2] 1217).
- *36) α -Phenyl- β -Buten- $\delta\delta$ -Dicarbonsäure. Sm. 112°. Ag_2 (*B.* 37, 3121 *C.* 1904 [2] 1217).
- *37) cis- β -Phenyl- β -Buten- $\gamma\delta$ -Dicarbonsäure. Sm. 183° (*B.* 37, 1619 *C.* 1904 [1] 1419).
- 46) Dimethyläther d. 7,8-Dioxy-2-Methyl-1,4-Benzpyron + H_2O . Sm. 102° (wasserfrei) (*B.* 36, 2192 *C.* 1903 [2] 384).
- 47) Podophylloresin (*Soc.* 73, 221). — *III, 474.
- 48) Dioxy-norencarbonsäure. Sm. 203° u. Zers. (*B.* 36, 3507 *C.* 1903 [2] 1274).
- 49) 4-Oxymethylbenzofuranäthyläther-1-Carbonsäure. Sm. 163–164°. Ca (*B.* 37, 198 *C.* 1904 [1] 661).
- $C_{12}H_{12}O_5$ *11) α -Keto- α -Phenylbutan- $\gamma\delta$ -Dicarbonsäure. Sm. 160° (*C.* 1903 [2] 944).
- $C_{12}H_{12}O_6$ *22) α -Phenylpropan- $\alpha\beta\gamma$ -Tricarbonsäure + H_2O . Sm. 110° (*M.* 24, 371 *C.* 1903 [2] 496).
- $C_{12}H_{12}N_2$ *4) 2,4'-Diamidobiphenyl. Sm. 57–58° (*B.* 36, 4090 *C.* 1904 [1] 269).
- *6) 4,4'-Diamidobiphenyl (D.R.P. 147852 *C.* 1904 [1] 133).
- *10) s-Diphenylhydrazin (*B.* 36, 339 *C.* 1903 [1] 633).
- $C_{12}H_{12}N_4$ *2) 3,3'-Diamidoazobenzol. Sm. 156° (*J. pr.* [2] 67, 265 *C.* 1903 [1] 1221).
- $C_{12}H_{12}N$ *2) 1-Aethylamidonaphtalin. Sd. 292–323°₇₄₅ (*C.* 1903 [1] 998).
- *3) 2-Aethylamidonaphtalin. Sd. 322–336°₇₄₅ (*C.* 1903 [1] 998).
- $C_{12}H_{12}N_3$ *3) 4,4'-Diamidodiphenylamin. Sm. 158° (D.R.P. 139568 *C.* 1903 [1] 746).
- $C_{12}H_{12}N_5$ 2) α -Tetraamidocarbazol. 4HCl (*B.* 37, 3598 *C.* 1904 [2] 1505).
- 3) β -Tetraamidocarbazol. 4HCl (*B.* 37, 3598 *C.* 1904 [2] 1505).
- 4) γ -Tetraamidocarbazol. 4HCl (*B.* 37, 3598 *C.* 1904 [2] 1505).
- 5) δ -Tetraamidocarbazol. 4HCl (*B.* 37, 3598 *C.* 1904 [2] 1505).
- $C_{12}H_{14}O$ *10) γ -Keto- α -Phenyl- δ -Methyl- α -Penten. Sd. 284–286°₇₈₀ (*Soc.* 81, 1489 *C.* 1903 [1] 138).
- $C_{12}H_{14}O_2$ *4) $\alpha\gamma$ -Diketo- α -Phenylhexan. Sd. 152–155°₁₀ (*C. r.* 139, 209 *C.* 1904 [2] 649).
- *14) Diäthylphtalid. Sm. 54° (*B.* 37, 736 *C.* 1904 [1] 1078).
- 28) Äthyläther d. α -Oxy- γ -Keto- α -Phenyl- α -Buten. Sd. 167–169°₉₀ (*Soc.* 85, 1180 *C.* 1904 [2] 1216).
- 29) $\beta\delta$ -Diketo- γ -Benzylpentan. Sd. 151–152°₁₆ (*A.* 330, 235 *C.* 1904 [1] 945).
- 30) Trimethyl-m-Bisecyklohexanon. Sm. 136°; Sd. 320°₇₅₄ (*B.* 36, 2150 *C.* 1903 [2] 369).
- 31) isom. Trimethyl-m-Bisecyklohexanon. Sm. 64°; Sd. 280°₇₅₄ (*B.* 36, 2150 *C.* 1903 [2] 369).

- C₁₂H₁₄O₂** 32) α -Phenyl- β -Penten- ϵ -Carbonsäure. Sm. 88°. Ba + 2H₂O, Ag (A. 331, 163 C. 1904 [1] 1211).
 33) Lakton d. α -Oxy- α -Phenylpentan- γ -Carbonsäure. Sm. 30° (C. 1904 [1] 1259).
 34) Lakton d. α -Oxy- α -Phenylbutan- β -Methylcarbonsäure. Sm. 88°; Sd. 165°₁₃ (C. 1904 [1] 1258).
 35) Aethylester d. α -Phenylpropen- α -Carbonsäure. Sd. 128—131°₁₅ (B. 36, 2253 C. 1903 [2] 436).
 36) Aethylester d. β -Phenylpropen- α -Carbonsäure. Sd. 133—135° (269 bis 271°) (B. 37, 1092 C. 1904 [1] 1262; C. r. 138, 987 C. 1904 [1] 1439).
 37) Aethylester d. trans-1-Phenyl-R-Trimethylen-2-Carbonsäure. Sm. 39°; Sd. 144—148°₁₅ (B. 36, 3783 C. 1904 [1] 42).
- C₁₂H₁₄O₃** *12) α -Keto- α -Phenylpentan- γ -Carbonsäure. Sm. 87° (C. 1904 [1] 1259).
 *40) Aethylester d. β -Benzoylpropionsäure. Sd. 184°₂₂ (C. 1904 [1] 1259).
 56) Anhydrobis-1,4-Diketoexahydrobenzol. Sm. 133° (B. 37, 3488 C. 1904 [2] 1301).
 57) α -[2-Aethoxyphenyl]propen- γ -Carbonsäure (γ -[2-Aethoxyphenyl]-isocrotonsäure). Sm. 130—131°. Ag (B. 37, 3988 C. 1904 [2] 1639).
 58) α -[3-Aethoxyphenyl]propen- γ -Carbonsäure. Sm. 98° (B. 37, 3989 C. 1904 [2] 1639).
 59) β -Benzoylbutan- α -Carbonsäure. Sm. 78,5° (C. 1904 [1] 1258).
 60) Aethylester d. 1-Aethylbenzol-4-Ketocarbonsäure. Sd. 186—188°₃₀ (C. r. 136, 558 C. 1903 [1] 832).
- C₁₂H₁₄O₄** *1) 3,4-Methylenäther-2,5-Dimethyläther d. 2,3,4,5-Tetraoxy-1-Allylbenzol (Apiol) (B. 36, 1714 C. 1903 [2] 113; B. 36, 3455 C. 1903 [2] 1177; Ar. 242, 336, 344 C. 1904 [2] 525).
 *2) Dillapiol (4,5-Methylenäther-2,3-Dimethyläther d. 2,3,4,5-Tetraoxy-1-Allylbenzol (Ar. 242, 339 C. 1904 [2] 524; Ar. 242, 346 C. 1904 [2] 525).
 *3) Isoapiol. Pikrat (C. 1904 [2] 954).
 *4) Dillisoapiol (4,5-Methylenäther-2,3-Dimethyläther d. 2,3,4,5-Tetraoxy-1-Propenylbenzol). Pikrat (Ar. 242, 340 C. 1904 [2] 525; C. 1904 [2] 954).
 56) α -[2,5-Dioxyphenyl]propen-2,5-Dimethyläther- β -Carbonsäure. Sm. 113° (B. 36, 859 C. 1903 [1] 1084).
 57) Dimethylester d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 57° (M. 24, 423 C. 1903 [2] 622).
 58) 5-Aethylester d. 1,3-Dimethylbenzol-2,5-Dicarbonsäure. Sm. 189 bis 190° (Am. 20, 811). — *II, 1070.
 59) α -Acetat d. 3,4-Dioxy-1-[α -Oxypropyl]benzol-3,4-Methylenäther. Sd. 182—185°₁₂ (C. 1904 [2] 1568).
- C₁₂H₁₄O₅** *12) 1,2-Lakton d. 3,4-Dioxy-1-Dioxymethylbenzol-3,4-Dimethyläther-1-Aethyläther-2-Carbonsäure. Sm. 92° (B. 36, 1581 C. 1903 [1] 1398).
 *21) Diäthylester d. 4-Oxybenzol-1,3-Dicarbonsäure. Sm. 57° (B. 37, 2122 C. 1904 [2] 438).
 38) β -[2,4,6-Trioxypheyl]akryltrimethyläthersäure. Sm. 218° u. Zers. (M. 24, 868 C. 1904 [1] 368).
 39) Aethylester d. 2,4-Dioxybenzoldimethyläther-1-Ketocarbonsäure (Bl. [3] 17, 946). — *II, 1122.
 40) 2-Methoxyphenylester d. α -Acetoxypropionsäure. Sm. 71°; Sd. 180°₁₃ (B. 37, 3973 C. 1904 [2] 1605).
- C₁₂H₁₄O₆** 32) α -[3,4-Dioxyphenyl]äthan-3,4-Dimethyläther- $\beta\beta$ -Dicarbonsäure. Sm. 80° (C. 1904 [2] 903).
 33) Methylester d. 2-Acetoxy-3,4-Dioxybenzol-3,4-Dimethyläther-1-Carbonsäure. Sm. 62—64° (M. 25, 512 C. 1904 [2] 1118).
- C₁₂H₁₄O₇** 9) Pyrogalloldiglykolmonoäthyläthersäure. Sm. 108—109° (D. R. P. 155568 C. 1904 [2] 1443).
 10) Monoäthylester d. Glutakonylglutakonsäure. Sm. 218—220° u. Zers. (C. r. 136, 694 C. 1903 [1] 960).
 11) Monoäthylester d. 6-Oxy-1,4-Dihydrobenzol-1,3-Dicarbonsäure-4-Methylcarbonsäure. Sm. 154° u. Zers. (B. 37, 2119 C. 1904 [2] 438).
 12) Diäthylester d. 2,4,6-Trioxypbenzol-1,3-Dicarbonsäure. Sm. 107° (Soc. 85, 166 C. 1904 [1] 163, 722).
- C₁₂H₁₄O₈** 2) Diäthylester d. $\alpha\gamma\delta\zeta$ -Tetraketoexan- $\alpha\zeta$ -Dicarbonsäure. Sm. 126° (B. 36, 958 C. 1903 [1] 1019).

- $C_{12}H_{14}N_2$ *22) 3,4,5-Trimethyl-1-Phenylpyrazol. *Sd.* 287—290°₇₅₀. HCl, (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat, Pikrolonat (*B.* 36, 1277 *C.* 1903 [1] 1253; *B.* 36, 3989 *C.* 1904 [1] 172; *B.* 37, 3525 *C.* 1904 [2] 1314).
- 23) 3-Aethyl-5-Phenylpyrazol. *Sm.* 82°; *Sd.* 205—207°₁₇ (*C. r.* 139, 296 *C.* 1904 [2] 710).
- $C_{12}H_{14}N_4$ *1) 2,4,2',4'-Tetraamidobiphenyl (*J. pr.* [2] 66, 561 *C.* 1903 [1] 518).
- 14) 3[5]-[α -Phenylhydrazonäthyl]-4-Methylpyrazol. *Sm.* 135—136° (*B.* 36, 1132 *C.* 1903 [1] 1139).
- $C_{12}H_{14}Br_4$ 1) $\beta\gamma\gamma\delta$ -Tetrabrom- δ -Phenyl- β -Methylpentan. *Fl.* (*B.* 37, 2306 *C.* 1904 [2] 215).
- $C_{12}H_{15}N$ *20) 3,3-Dimethyl-2-Aethylpseudindol. *Sm.* 52—53° (*G.* 32 [2] 422 *C.* 1903 [1] 838).
- *25) 2,5-Dimethyl-1-Aethylindol. *Sm.* 47° (*D. R. P.* 137117 *C.* 1903 [1] 109).
- $C_{12}H_{15}N_3$ 4) 3-Imido-1,4,5-Trimethyl-2-Phenyl-2,3-Dihydropyrazol. Carbonat, Chromat, Pikrat (*B.* 36, 3287 *C.* 1903 [2] 1190).
- 5) 3-Methylimido-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Pikrat (*B.* 36, 3286 *C.* 1903 [2] 1190).
- $C_{12}H_{15}Br_3$ *2) 2,4,6-Tribrom-1,3,5-Triäthylbenzol. *Sm.* 103,5—104° (*J. pr.* [2] 68, 212 *C.* 1903 [2] 1114).
- 3) 3,5,6-Tribrom-1,2,4-Triäthylbenzol. *Sm.* 88—90° (*B.* 36, 1634 *C.* 1903 [2] 25).
- $C_{12}H_{16}O$ *1) δ -Oxy- δ -Phenyl- α -Hexen (*C.* 1904 [1] 1343).
- 31) 1-Oxy-1-Phenylhexahydrobenzol. *Sm.* 61°; *Sd.* 153°₂₀ u. Zers. (*C. r.* 138, 1322 *C.* 1904 [2] 219).
- 32) Methyläther d. γ -[2-Oxyphenyl]- β -Penten. *Sd.* 134—136°₃₅ (*Bl.* [3] 29, 354 *C.* 1903 [1] 1222).
- 33) Methyläther d. γ -[4-Oxyphenyl]- β -Penten. *Sd.* 129—130°₁₇ (*B.* 37, 3998 *C.* 1904 [2] 1641).
- 34) Aethyläther d. α -[2-Oxyphenyl]- α -Buten. *Sd.* 126—127°₁₉ (*B.* 37, 4000 *C.* 1904 [2] 1641).
- 35) Aethyläther d. α -[4-Oxyphenyl]- β -Methylpropen. *Sd.* 128°₁₅ (*B.* 37, 4001 *C.* 1904 [2] 1641).
- 36) Isobutyläther d. β -Oxy- α -Phenyläthen. *Sd.* 248—251° (*C. r.* 138, 288 *C.* 1904 [1] 720; *Bl.* [3] 31, 528 *C.* 1904 [1] 1552).
- 37) Methyl-2,5-Diäthylphenylketon. *Sd.* 246—247°₇₉₉ (*B.* 36, 1633 *C.* 1903 [2] 25).
- 38) Aldehyd d. Methyltertiärbutylbenzolcarbonsäure (*D. R. P.* 94019) — *III, 45.
- $C_{12}H_{16}O_2$ *9) Aethyläther d. Isopropyl-4-Oxyphenylketon. *Sm.* 41°; *Sd.* 170 bis 171°₂₂ (*B.* 37, 4001 *C.* 1904 [2] 1641).
- *20) 3-tert. Butyl-1-Methylbenzol-5-Carbonsäure. *Sm.* 158—159°. Ba + 1½ H₂O, Ca + 2 H₂O (*C.* 1904 [1] 1498).
- 59) Methyl-4-Oxy-2-Methyl-5-Isopropylphenylketon (*C.* 1904 [1] 1597).
- 60) γ -[4-Methylphenyl]valeriansäure. *Sd.* 176°₁₀ (*C.* 1904 [1] 1416).
- 61) α -Phenylbutan- β -Methylcarbonsäure. *Sm.* 22°; *Sd.* 134°₁. Ca + 3 H₂O (*C.* 1904 [1] 1259).
- $C_{12}H_{16}O_3$ *1) Asaron. Pikrat (*C.* 1904 [2] 954).
- *56) Aethyläther d. α -Oxy- α -Phenylbuttersäure. *Sd.* 143°₃₀ (*C.* 1903 [1] 225).
- 59) Aethyläther d. β -Oxy- β -Phenyl- α -Methylpropionsäure. *Fl.* (*J. r.* 28, 597). — *II, 935.
- $C_{12}H_{16}O_4$ *6) 4-Methyläther d. Propyl-2,4,6-Trioxy-3-Methylphenylketon (Aspidinol) (*A.* 329, 286 *C.* 1904 [1] 796; *Ar.* 242, 496 *C.* 1904 [2] 1418).
- 24) 1-Keto-2,4-Diacetyl-2-Oxymethyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. *Sm.* 69° (*B.* 36, 2167 *C.* 1903 [2] 371).
- 25) 3,6-Dioxy-2,5-Diisopropyl-1,4-Benzochinon. *Sm.* 154°. Na₂ + 2 C₂H₅O (*B.* 37, 2389 *C.* 1904 [2] 308).
- 26) α -Oxy- α -[4-Methoxyphenyl]- β -Methylpropan- β -Carbonsäure. *Sm.* 110°. Na + 4 H₂O, K + H₂O, Ba + 4 H₂O (*C.* 1903 [2] 566).
- 27) Säure (aus d. Cyanhydrin C₁₂H₁₆ON₂) (*C.* 1904 [1] 1083).
- 28) Methyläther d. $\beta\beta$ -Dioxy- β -Phenylpropiondimethyläthersäure. *Sd.* 146—147°₁₈ (*C. r.* 137, 260 *C.* 1903 [2] 664; *Bl.* [3] 31, 495 *C.* 1904 [1] 1602).
- 29) Dimethylester d. 2-Methyl-R-Penten-5-Carbonsäure-4-[Aethyl- β -Carbonsäure]. *Sd.* 290° (*B.* 36, 949 *C.* 1903 [1] 1021).

- $C_{12}H_{16}O_4$ 30) Monoäthylester d. 2-Methyl-R-Penten-5-Carbonsäure-4-[Äthyl- β -Carbonsäure]. Sm. 103—104°. Ag (B. 36, 948 C. 1903 [1] 1021).
- $C_{12}H_{16}O_5$ 18) 3,4-Methylenäther-2,5-Dimethyläther d. 2,3,4,5-Tetraoxy-1-[α -oder- β -Oxypropyl]benzol. Sm. 120° (B. 36, 3584 C. 1903 [2] 1364).
- 19) Oxyessig-2,3-Diäthoxyphenyläthersäure (Pyrogallolglykoldiäthyläthersäure). Sm. 82—83° (D.R.P. 155568).
- 20) 2,4,6-Trioxy-1,3-Dimethylbenzoltrimethyläther-1-Carbonsäure. Sm. 125—126° (M. 24, 107 C. 1903 [1] 966).
- 21) Methylester d. 2,4,6-Trioxy-1,3-Dimethylbenzol-2,4-Dimethyläther-5-Carbonsäure. Sm. 50—51° (M. 24, 113 C. 1903 [1] 967).
- 22) Äthylester d. 2,4,6-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 77—78° (M. 24, 874 C. 1904 [1] 368).
- $C_{12}H_{16}O_6$ 10) Dimethylester d. Diketocampfersäure. Sm., 85—88°. Cu (B. 36, 4333 C. 1904 [1] 456).
- $C_{12}H_{16}O_7$ *2) Pikroerythrin (Bl. [3] 31, 613 C. 1904 [2] 99).
- $C_{12}H_{16}O_8$ 17) Säure (aus Cholesterin). $Ca_2 + 8H_2O$, $Cu_2 + H_2O$ (M. 24, 181 C. 1903 [2] 20).
- $C_{12}H_{16}N_2$ 11) Nitril d. α -Diäthylamidophenylessigsäure. Sd. 142°₁₆ (B. 36, 4192 C. 1904 [1] 263).
- $C_{12}H_{16}N_4$ C 66,7 — H 7,4 — N 25,9 — M. G. 216.
- 1) 2,3-Di[Äthylamido]-1,4-Benzdiazin. Sm. 156° (B. 36, 4050 C. 1904 [1] 184).
- $C_{12}H_{16}Br_2$ *5) 4,6-Dibrom-2-Propyl-1,3,5-Trimethylbenzol. Sm. 56—57° (B. 37, 1719 C. 1904 [1] 1489).
- 6) $\beta\gamma$ -Dibrom- δ -Phenyl- β -Methylpentan. Fl. (B. 37, 2307 C. 1904 [2] 216).
- 7) d - $\alpha\beta$ -Dibrom- α -Phenyl- γ -Methylpentan. Sm. 91—92° (B. 37, 654 C. 1904 [1] 937).
- 8) $\alpha\beta$ -Dibrom- α -Phenyl- β -Äthylbutan. Fl. (B. 37, 1724 C. 1904 [1] 1515).
- 9) 4-[$\alpha\beta$ -Dibromisoamyl]-1-Methylbenzol. Sm. 85° (B. 37, 1089 C. 1904 [1] 1260).
- $C_{12}H_{18}J_2$ 1) 4-[$\alpha\beta$ -Dijodisoamyl]-1-Methylbenzol. Sm. 106—107° (B. 37, 1090 C. 1904 [1] 1260).
- $C_{12}H_{17}N$ *9) 1-Benzylhexahydropyridin. Sd. 245°. HCl, (2HCl, PtCl₄) (B. 37, 2920 C. 1904 [2] 1237; B. 37, 3232 C. 1904 [2] 1152).
- 37) Äthylallyl-4-Methylphenylamin. Sd. 238°. Pikrat (B. 37, 2717 C. 1904 [2] 591).
- 38) Phenylamidohexahydrobenzol. Sd. 275° u. Zers. HCl (C. r. 138, 459 C. 1904 [1] 884).
- 39) 1-3-Benzylhexahydropyridin. Sd. 278—279°. (2HCl, PtCl₄) (B. 36, 2713 C. 1903 [2] 838).
- 40) Nitril d. Cyklocitrylidenessigsäure. Sd. 141°₁₇ (D.R.P. 153575 C. 1904 [2] 678).
- $C_{12}H_{17}Cl$ *5) γ -Chlor- γ -Benzylpentan. Fl. (B. 37, 1724 C. 1904 [1] 1515).
- 6) γ -Chlor- γ -Phenyl- β -Methylpentan. Fl. (B. 37, 1725 C. 1904 [1] 1515).
- $C_{12}H_{18}O$ *9) Xyliton (L. BLACH, Dissert., Heidelberg 1900).
- *22) α -Oxy- α -[2,4,6-Trimethylphenyl]propan. Sd. 142°₁₄ (B. 37, 927 C. 1904 [1] 1209).
- 25) γ -Oxy- γ -Benzylpentan. Sd. 243—245°₁₅₅ (B. 37, 1724 C. 1904 [1] 1515).
- 26) γ -Oxy- γ -Phenyl- β -Methylpentan. Sd. 224—226° u. Zers. (B. 37, 1724 C. 1904 [1] 1515).
- 27) δ -Oxy- δ -Phenyl- β -Methylpentan. Sd. 110—112°₁₂ (B. 37, 2307 C. 1904 [2] 216).
- 28) γ -Oxy- α -Phenyl- γ -Methylpentan. Sd. 129—130°₁₃ (B. 37, 2317 C. 1904 [2] 217).
- 29) β -Oxy- α -Phenyl- β -Äthylbutan. Sd. 245° (C. 1904 [1] 1496).
- 30) Äthyläther d. α -[2-Oxyphenyl]butan. Sd. 124—125°₁₉ (B. 37, 4000 C. 1904 [2] 1641).
- 31) 4-Keto-6-Isobutenyl-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sd. 132—134°₁₂ (L. BLACH, Dissert., Heidelberg 1900).
- 32) Isoxyliton. Sd. 129—130°₁₁ (L. BLACH, Dissert., Heidelberg 1900).
- 33) Äthylidencampher. Sd. 110—115°₁₀ (C. r. 138, 578 C. 1904 [1] 948).
- $C_{12}H_{18}O_2$ 29) 2-Methyläther d. γ -Oxy- γ -[2-Oxyphenyl]pentan. Sd. 142°₁₈ (Bl. [3] 29, 352 C. 1903 [1] 1222).

- $C_{12}H_{18}O_2$ 30) Diäthyläther d. $\beta\beta$ -Dioxy- α -Phenyläthan. *Sd.* 245—246° (*B.* 37, 188 *C.* 1904 [1] 638).
- 31) α -Phenyläther d. $\alpha\beta$ -Dioxy- β -Aethylbutan. *Sd.* 140—142°₁₂ (*C. r.* 138, 91 *C.* 1904 [1] 505).
- 32) Acetylcampher (Oxyäthylidencampher). *Sd.* 127°₁₁. *Cu* (*B.* 36, 2628, 2638 *C.* 1903 [2] 626; *B.* 36, 4282 *C.* 1904 [1] 458; *B.* 37, 755 *C.* 1904 [1] 1083; *B.* 37, 763 *C.* 1904 [1] 1085; *B.* 37, 2181 *C.* 1904 [2] 224).
- 33) Cyklocitrylidenessigsäure (*D.R.P.* 153 575 *C.* 1904 [2] 677).
- 34) Acetat d. Alkohol $C_{10}H_{18}O$ (aus Gingergrasöl). *Sd.* 90—91°₄ (*C.* 1904 [1] 1264).
- $C_{12}H_{18}O_3$ *16) Methylester d. Camphocarbonsäure. *Sd.* 162°₁₆. *Na*, *Fe* (*B.* 36, 672 *C.* 1903 [1] 772; *B.* 36, 1310 *C.* 1903 [1] 1225; *C. r.* 136, 240 *C.* 1903, [1] 584; *B.* 37, 2515 *C.* 1904 [2] 332; *B.* 37, 3947 *C.* 1904 [2] 1569).
- 27) 2-Methyläther d. $\beta\gamma$ -Dioxy- γ -[2-Oxyphenyl]pentan. *Fl.* (*Bl.* [3] 29, 355 *C.* 1903 [1] 1222).
- 28) Trimethyläther d. 2,3,5-Trioxy-1-Propylbenzol. *Sd.* 144—146°₁₂ (*B.* 36, 1718 *C.* 1903 [2] 114).
- 29) 3-Propyläther d. 2,3,5-Trioxy-1-Propylbenzol. *Sm.* 102° (*B.* 36, 1721 *C.* 1903 [2] 114).
- 30) Aethylester d. 4-Keto-2,2,6-Trimethyl-1,2,3,4-Tetrahydrobenzol-1-Carbonsäure. *Sd.* 146—148°₁₆ (*D.R.P.* 148 080 *C.* 1904 [1] 328).
- 31) Aethylester d. 4-Keto-1-Methyl-3-Allyl-R-Pentamethylen-3-Carbonsäure. *Sd.* 139—141°₁₅ (*C. r.* 136, 1614 *C.* 1903 [2] 440).
- 32) Aethylester d. 3-Keto-1-Methyl-2-Allyl-R-Pentamethylen-2-Carbonsäure. *Sd.* 139—141°₁₈ (*C. r.* 138, 210 *C.* 1904 [1] 663).
- 33) Acetat d. 5-Oxy-7-Keto-1-Methylbicyclo-[1,3,3]-Nonan. *Sd.* 172 bis 176°₁₈ (*B.* 37, 1673 *C.* 1904 [1] 1607).
- $C_{12}H_{18}O_4$ 19) $\alpha\alpha\gamma\gamma$ -Tetraacetyl- β -Methylpropan (Aethylidenbisacetylaceton). *Sm.* 108° (*B.* 36, 2150 *C.* 1903 [2] 369).
- 20) $\gamma\epsilon$ -Lakton d. ϵ -Oxy- $\beta\epsilon$ -Dimethyl- β -Hexadien- $\gamma\delta$ -Dicarbonsäure- δ -Aethylester. *Sm.* 75°; *Sd.* 165°₁₂ (*J. pr.* [2] 67, 197 *C.* 1903 [1] 869).
- 21) Monoäthylester d. $\beta\epsilon$ -Dimethyl- $\beta\delta$ -Hexen- $\gamma\delta$ -Dicarbonsäure. *Sm.* 49° (*J. pr.* [2] 67, 198 *C.* 1903 [1] 869).
- $C_{12}H_{18}O_5$ 7) $\beta\beta\delta\delta$ -Tetraacetyl- α -Oxybutan. *Sm.* 91° (*B.* 36, 2165 *C.* 1903 [2] 371).
- $C_{12}H_{18}O_6$ *3) Diäthylester d. $\beta\epsilon$ -Dioxy- $\beta\delta$ -Hexadien- $\gamma\delta$ -Dicarbonsäure (*B.* 37, 3490 *C.* 1904 [2] 1288).
- *10) Triäthylester d. Aconitsäure (*B.* 36, 279 *C.* 1903 [1] 440).
- 18) Dimethylester d. Anemonolsäure. *Sm.* 93—94° (*M.* 20, 641). — *III, 456.
- 19) isom. Triäthylester d. Isoakonitsäure. *Sd.* 173—176°₁₅ (*C.* 1903 [1] 628).
- 20) Triäthylester d. Propen- $\alpha\alpha\gamma$ -Tricarbonsäure. *Sd.* 173—176°₁₅ (*Soc.* 85, 864 *C.* 1904 [2] 512).
- $C_{12}H_{18}O_7$ 7) Diäthylester d. β -Oxy- γ -Keto- β -Acetylbutan- $\alpha\alpha$ -Dicarbonsäure. *Sm.* 53° (*B.* 36, 3228 *C.* 1903 [2] 941).
- $C_{12}H_{18}O_9$ *2) Glykosetriacetat (*Am.* 28, 370 *C.* 1903 [1] 76).
- $C_{12}H_{18}N$ 20) Methylisobutylbenzylamin. *Sd.* 115—118°₃₀ (*Soc.* 83, 1412 *C.* 1904 [1] 438).
- $C_{12}H_{20}O$ *3) Myroxocerin. *Sm.* 120—130° (*C.* 1904 [2] 1047).
- 8) 4-[β -Ketobutyl]-1,1,3-Trimethyl-2,3-Dihydro-R-Penten (Aethylcampholenon). *Sd.* 222—225° (*Bl.* [3] 31, 465 *C.* 1904 [1] 1516).
- 9) Verbindung (aus d. Glykol $C_{12}H_{22}O_4$). *Sd.* 115—117°₃₀ (*M.* 24, 165 *C.* 1903 [1] 957).
- 10) Verbindung (aus Leberpigment). *Sd.* 208—212° (*C.* 1904 [2] 665).
- 11) Verbindung (aus $\alpha\gamma$ -Dioxybutan). *Sd.* 200° (*M.* 25, 10 *C.* 1904 [1] 716).
- $C_{12}H_{20}O_2$ *12) Acetat d. Isoborneol. *Sd.* 106°₁₁ (*C. r.* 136, 239 *C.* 1903 [1] 584).
- *20) Acetat d. l-Linalool (*J. pr.* [2] 68, 495 *C.* 1903 [1] 516).
- 42) α -Oxyäthylcampher. *Sd.* 223—226°_{75.3} (*B.* 36, 2628 *C.* 1903 [2] 625).
- 43) α -Undekin- α -Carbonsäure. *Sm.* 30° (*C. r.* 136, 554 *C.* 1903 [1] 825).
- 44) $\beta\epsilon$ -Dimethyl- $\alpha\theta$ -Nonadien-1-Carbonsäure (Citronellidenessigsäure). *Sd.* 175,5—177,5°₁₄. *Ni* (*B.* 36, 2797 *C.* 1903 [2] 877).

- $C_{12}H_{20}O_2$ 45) Aethylester d. α -Nonin- α -Carbonsäure. Sd. 143—146°₂₁ (*C. r.* 136, 554 *C.* 1903 [1] 825).
- 46) Aethylester d. 1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure? Sd. 95—98°₁₃ (D.R.P. 148206 *C.* 1904 [1] 486).
- 47) Isopropylester d. α -Oktin- α -Carbonsäure. Sd. 145—148°₃₂ (*C. r.* 136, 554 *C.* 1903 [1] 825).
- 48) Acetat d. Campholenalkohol. Sd. 228—229° (*C. r.* 138, 280 *C.* 1904 [1] 725).
- 49) Acetat d. Cyklogeraniol. Sd. 130—132°₃₀ (D.R.P. 138141 *C.* 1903 [1] 267).
- 50) Acetat d. Nerol. Sd. 134°₂₅ (*B.* 36, 267 *C.* 1903 [1] 585). — *III, 350.
- $C_{12}H_{20}O_3$ 14) Aethylester d. δ -Oxy- α - ζ -Heptadien- δ -[Aethyl- β -Carbonsäure] (A. d. γ -Oxy- $\gamma\gamma$ -Diallylbuttersäure). Sd. 244—250° (*C.* 1904 [1] 1330).
- 15) Aethylester d. 5-Keto-1,1,3-Trimethylhexahydrobenzol-2-Carbonsäure. Sd. 132—133°₁₂ (D.R.P. 148207 *C.* 1904 [1] 487).
- 16) Aethylester d. 3-Keto-1-Methyl-2-Propyl-R-Pentamethylen-2-Carbonsäure. Sd. 136—137°₁₇ (*C. r.* 138, 210 *C.* 1904 [1] 663).
- 17) Aethylester d. 4-Keto-1-Methyl-3-Propyl-R-Pentamethylen-3-Carbonsäure. Sd. 136—137°₁₇ (*C. r.* 136, 1614 *C.* 1903 [2] 440).
- 18) Verbindung (aus d. Verb. $C_{12}H_{22}O_4$ aus Guttapercha). Fl. (*C.* 1903 [1] 83).
- $C_{12}H_{20}O_4$ 41) α -Methylhomocampfersäure. Sm. 178—180° (*C. r.* 118, 690; *C. r.* 137, 1068 *C.* 1904 [1] 283).
- 42) β -Methylhomocampfersäure. Sm. 143°. Na_2 (*C. r.* 137, 1068 *C.* 1904 [1] 283).
- 43) Aethylester d. $\epsilon\eta$ -Diketo- β -Methyloktan- ζ -Carbonsäure. Sd. 133 bis 134°₁₃ (*Bl.* [3] 31, 598 *C.* 1904 [2] 26).
- 44) Diäthylester d. δ -Methyl- β -Penten- $\beta\delta$ -Dicarbonsäure. Sd. 139°₂₄ (*C. r.* 136, 1140 *C.* 1903 [1] 1405; *Bl.* [3] 29, 1025 *C.* 1903 [2] 1315).
- 45) Monomenthylester d. Oxalsäure. Fl. (*C.* 1903 [1] 162; *B.* 37, 1378 *C.* 1904 [1] 1441).
- $C_{12}H_{20}O_5$ 14) Diäthylester d. γ -Keto- β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sd. 195 bis 197°₁₀₀ (*Soc.* 83, 775 *C.* 1903 [2] 190, 422).
- $C_{12}H_{20}O_6$ 24) Trimethylester d. Säure $C_9H_{14}O_6$. Sd. 194°₃₀ (*Bl.* [3] 29, 1046 *C.* 1903 [2] 1425).
- 25) Verbindung (aus Aethyloxalylchlorid). Sd. 143—144°₁₃ (*C. r.* 136, 1201 *C.* 1903 [2] 22).
- $C_{12}H_{22}O$ 9) 9-Oxy- $\beta\zeta$ -Dimethyl- $\beta\zeta$ -Dekadien (α -Aethylgeraniol). Sd. 120°₁₄ (D.R.P. 153120 *C.* 1904 [2] 624; D.R.P. 154656 *C.* 1904 [2] 1269).
- 10) 1-Oxydodekahydrobiphenyl. Sm. 51°; Sd. 148°₂₀ (*C. r.* 138, 1322 *C.* 1904 [2] 219).
- 11) 4-[β -Oxyisobutyl]-1,1,5-Trimethyl-2,3-Dihydro-R-Penten (Dimethylcampholenol. Sd. 218—220° (*Bl.* [3] 31, 461 *C.* 1904 [1] 1516).
- 12) Aethylmenthon. Sd. 101—102°₁₉ (*C. r.* 138, 1140 *C.* 1904 [2] 106).
- 13) 1-Aethylmenthon. Sd. 106—108°₁₅ (*C.* 1904 [2] 1046).
- $C_{12}H_{22}O_2$ 29) Glykol (aus Methyläthylakrolein). Sm. 89,5°; Sd. 165—170°₁₁ (*M.* 24, 157 *C.* 1903 [1] 956).
- 30) Diäthyläther d. $\alpha\alpha$ -Dioxy- β -Oktin. Sd. 110°₁₁ (*C. r.* 138, 1340 *C.* 1904 [2] 187).
- 31) ϵ -[β -Oxyisobutyl]-1,1,2-Trimethyl-R-Pentamethylen-2,3-Oxyd. Sm. 142° (*Bl.* [3] 31, 466 *C.* 1904 [1] 1516).
- 32) Säure (aus Hefefett). Pb (*H.* 38, 8 *C.* 1903 [1] 1428).
- 33) Aethylester d. i-Citronellalsäure. Sd. 115°₁₀ (*C. r.* 138, 1701 *C.* 1904 [2] 440).
- $C_{12}H_{22}O_3$ 30) Aethylester d. β -Oxy- α -Heptenäthyläther- α -Carbonsäure. Sd. 253 bis 253,5° (*C. r.* 138, 208 *C.* 1904 [1] 659; *Bl.* [3] 31, 512 *C.* 1904 [1] 1602).
- 31) Aethylester d. 5-Oxy-1,1,3-Trimethylhexahydrobenzol-2-Carbonsäure. Sd. 150—154°₁₇ (D.R.P. 148207 *C.* 1904 [1] 487).
- 32) Aethylester d. α -Keto- β -Methyloktan- α -Carbonsäure. Sd. 123 bis 124°₁₂ (*Bl.* [3] 31, 1153 *C.* 1904 [2] 1707).
- 33) Aethylester d. β -Keto- δ -Methyloktan- γ -Carbonsäure. Sd. 243 bis 245°₇₈₀ (*Soc.* 81, 1594 *C.* 1903 [1] 15, 132).

- $C_{12}H_{22}O_4$ *16) Diäthylester d. $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Dicarbonsäure (Bl. [3] 31, 116 C. 1904 [1] 643).
 38) Dimethylester d. β -Methylheptan- $\gamma\zeta$ -Dicarbonsäure. Sd. 251° u. Zers. (C. r. 136, 458 C. 1903 [1] 696; C. 1904 [2] 1045).
 39) Diäthylester d. β -Aethylbutan- $\alpha\alpha$ -Dicarbonsäure. Sd. 242—245° (Bl. [3] 31, 350 C. 1904 [1] 1134).
 40) Diacetat d. $\alpha\delta$ -Dioxyoktan. Sd. 163—168°₁₁ (M. 24, 404 C. 1903 [2] 620).
 41) Diacetat d. $\alpha\delta$ -Dioxy- $\beta\beta\delta$ -Trimethylpentan. Sd. 214—216° (M. 24, 602 C. 1903 [2] 1235).
 42) Diacetat d. $\gamma\delta$ -Dioxy- $\beta\beta\delta$ -Trimethylpentan. Sd. 122—123°₁₃ (C. 1904 [2] 1025).
 43) Verbindung (aus Guttapercha). Fl. (C. 1903 [1] 83).
- $C_{12}H_{22}O_5$ *5) Diäthylester d. β -Oxy- $\beta\gamma$ -Dimethylbutan- $\alpha\gamma$ -Dicarbonsäure (Bl. [3] 29, 1025 C. 1903 [2] 1315).
 14) Anhydrid d. β -Oxy- α -Aethylbuttersäure. Fl. (A. 334, 114 C. 1904 [2] 888).
 15) Aethylester d. Oxypivalyloxypivalinsäure. Sd. 154°₂₇ (Bl. [3] 31, 129 C. 1904 [1] 644).
 16) Diäthyläther d. γ -Oxybutanäthyläther- $\alpha\beta$ -Dicarbonsäure. Sd. 253 bis 255° (A. 330, 309 C. 1904 [1] 927).
 17) Diäthylester d. Homopilomalsäure. Sd. 293°₇₅₅ (B. 33, 2361). — *III, 687.
- $C_{12}H_{22}O_7$ 2) Diäthylester d. β -Aethoxymethoxymethoxyläthan- $\alpha\alpha$ -Dicarbonsäure. Fl. (C. 1904 [2] 641).
- $C_{12}H_{22}O_{11}$ *6) Isomaltose (C. 1904 [2] 1712).
 *10) Melibiose + 2H₂O. K, Na (C. 1903 [2] 1243; 1904 [1] 1645).
 *12) Milchsäure (Ph. Ch. 44, 487 C. 1903 [2] 557).
 *15) Rohrzucker (C. r. 137, 1259 C. 1904 [1] 436; C. r. 138, 638 C. 1904 [1] 1068).
 *24) Gentiobiose (C. 1903 [1] 229).
 29) Anhydrischer Milchsäure (C. 1904 [2] 1292).
 6) Zellobionsäure. Fl. (Bl. [3] 31, 857 C. 1904 [2] 645).
- $C_{12}H_{23}O_{12}$
 $C_{12}H_{23}N$ *1) Nitril d. Laurinsäure. Sm. 4°; Sd. 198°₁₀₀ (Bl. [3] 29, 1209 C. 1904 [1] 355).
 *4) Dimethylbornylamin. Sd. 210—213°₇₆₀. (2HCl, PtCl₄) (Soc. 85, 1195 C. 1904 [2] 1125).
 6) Di[Hexahydrophenyl]amin. Sm. 20°; Sd. 145°₃₀ (250° u. Zers.). HCl (C. r. 138, 458 C. 1904 [1] 884).
 7) Base (aus α -Camphylamin). Sd. 215° (C. r. 136, 1463 C. 1903 [2] 287).
 8) Nitril d. $\beta\zeta$ -Dimethylnonan- ϵ -Carbonsäure. Sd. 129—131°₁₉ (Bl. [3] 31, 307 C. 1904 [1] 1133).
- $C_{12}H_{24}O$ 8) Nitril d. $\beta\beta$ -Dimethylnonan- ϵ -Carbonsäure. Sd. 103—105°₁₁ (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 306 C. 1904 [1] 1133).
- $C_{12}H_{24}O_2$ *1) Laurinsäure. Sm. 44° (Bl. [3] 29, 1121 C. 1904 [1] 259).
 *20) $\beta\beta$ -Dimethylnonan- ϵ -Carbonsäure. Sm. 46—47° (Bl. [3] 31, 307 C. 1904 [1] 1133).
 26) 2-Oxy-3-[β -Oxyisobutyl]-1,1,2-Trimethyl-R-Pentamethylen (Dimethylcampholandioli). Sm. 94° (Bl. [3] 31, 466 C. 1904 [1] 1516).
 27) Säure (aus Suberites domuncula). Sm. 110° (H. 41, 121 C. 1904 [1] 997).
 28) Acetat d. ϵ -Oxy- β -Methyl- ϵ -Aethylheptan. Sd. 93—94°₁₄ (C. r. 138, 154 C. 1904 [1] 577).
- $C_{12}H_{24}O_8$ *6) α -Isobutyryl d. $\alpha\gamma$ -Dioxy- $\beta\beta\delta$ -Trimethylpentan (M. 25, 191 C. 1904 [1] 1000; M. 25, 251 C. 1904 [1] 1330).
 14) α -Oxyundekan- α -Carbonsäure. Sm. 73—74°. Na, K, Cu (Bl. [3] 29, 1124 C. 1904 [1] 261).
- $C_{12}H_{24}N_2$ 8) Nitril d. α -Diäthylamidoheptan- α -Carbonsäure. Sd. 125—126°₁₁ (B. 37, 4090 C. 1904 [2] 1725).
 1) trim. β -Thiobutan. Sd. 238°₇₅ (C. r. 136, 1460 C. 1903 [2] 252).
 4) α -Isocamylmidoheptan. + NaHSO₃ (C. 1904 [2] 945).
- $C_{12}H_{25}S_2$
 $C_{12}H_{25}N$
 $C_{12}H_{25}O$ *1) α -Oxydodekan. Sm. 22,6° (M. 25, 348 C. 1904 [1] 1400; Bl. [3] 31, 674 C. 1904 [2] 184).
 $C_{12}H_{25}O_2$ 8) α -Aethyläther d. $\alpha\beta$ -Dioxy- β -Methylnonan. Sd. 130—133°₁₃ (C. r. 138, 92 C. 1904 [1] 505).

- $C_{12}H_{26}O_2$ 9) ζ -Aethyläther d. $\epsilon\zeta$ -Dioxy- ϵ -Propyl- β -Methylhexan. Sd. 109—113¹²,
(*C. r.* 138, 92 *C.* 1904 [1] 505).
- 10) ϵ -Aethyläther d. $\delta\epsilon$ -Dioxy- β -Methyl- δ -Isobutylpentan. Sd. 112
bis 113²³ (*C. r.* 138, 91 *C.* 1904 [1] 505; *Bl.* [3] 31, 303 *C.* 1904 [1]
1133).
- $C_{12}O_4Br_6$ *1) Hexabrom-1,2-Benzochinonbrenzkatechinäther (*Am.* 31, 98 *C.* 1904
[1] 802).

— 12 III —

- $C_{12}H_2O_4Br_4$ 1) Verbindung (aus Tribromresochinon) (*M.* 1, 350; 4, 223). — II, 922.
- $C_{12}H_2O_4Br_6$ *2) Hexabromdi-o-Oxybrenzkatechinäther. Sm. 304—307° (*Am.* 30, 523
C. 1904 [1] 366).
- $C_{12}H_2O_5Br_8$ 1) α -Verbindung (aus 3,4,5,6-Tetrabrom-1,2-Benzochinon). Zers. bei 190
bis 200° (*B.* 36, 455 *C.* 1903 [1] 574; *Am.* 31, 109 *C.* 1904 [1] 802).
- 2) β -Verbindung (aus 3,4,5,6-Tetrabrom-1,2-Benzochinon). Sm. 221—222°
(*B.* 36, 455 *C.* 1903 [1] 574; *Am.* 31, 110 *C.* 1904 [1] 802).
- $C_{12}H_5O_2Br$ 1) 3-Brom-7,8-Acenaphtenchinon. Sm. 194° (*A.* 327, 87 *C.* 1903 [1]
1228).
- $C_{12}H_5O_3Br$ 2) Anhydrid d. 4-Bromnaphtalin-1,8-Dicarbonsäure. Sm. 210° (*B.* 7,
1095; *A.* 327, 86 *C.* 1903 [1] 1228; *B.* 36, 3770 *C.* 1903 [2] 1445). —
II, 1880.
- $C_{12}H_5O_5N$ *1) Anhydrid d. 4-Nitronaphtalin-1,8-Dicarbonsäure. Sm. 220—222°
(*B.* 36, 3772 *C.* 1903 [2] 1446).
- 2) Anhydrid d. 3-Nitronaphtalin-1,8-Dicarbonsäure. Sm. 247° (249°)
(*B.* 32, 3248; *A.* 327, 84 *C.* 1903 [1] 1228).
- $C_{12}H_5O_6N_5$ *1) α -Tetranitrocarbazol. Sm. 285—286° (*B.* 37, 3597 *C.* 1904 [2] 1505).
- *2) β -Tetranitrocarbazol. Sm. 273° (*B.* 37, 3597 *C.* 1904 [2] 1505).
- *3) γ -Tetranitrocarbazol. Sm. 275° u. Zers. (*B.* 37, 3597 *C.* 1904 [2] 1505).
- *4) δ -Tetranitrocarbazol (*B.* 37, 3597 *C.* 1904 [2] 1505).
- $C_{12}H_5O_9N_5$ C 39,6 — H 1,4 — O 39,7 — N 19,3 — M. G. 363.
- 1) 3,5,7,9-Tetranitrophenoxazin. Zers. bei 210° (*B.* 36, 480 *C.* 1903
[1] 651).
- $C_{12}H_6O_2N_4$ C 68,6 — H 2,8 — O 15,2 — N 13,3 — M. G. 210.
- 1) Peroxyd d. 7,8-Dioximidoacenaphten? Sm. 140° u. Zers. (*G.* 33
[1] 45 *C.* 1903 [1] 881).
- $C_{12}H_6O_4N_2$ 3) Imid d. 4-Nitronaphtalin-1,8-Dicarbonsäure. Sm. 284° (*A.* 327, 83
C. 1903 [1] 1227).
- $C_{12}H_6O_5N_4$ C 50,3 — H 2,1 — O 28,0 — N 19,6 — M. G. 286.
- 1) β -Dinitro-5,10-Naphtdiazin-5,10-Oxyd. Sm. 240° (*B.* 36, 4143
C. 1904 [1] 186).
- 2) isom β -Dinitro-5,10-Naphtdiazin-5,10-Oxyd. Sm. 269° (*B.* 36, 4143
C. 1904 [1] 186).
- $C_{12}H_6O_7N_4$ C 45,3 — H 1,9 — O 35,2 — N 17,6 — M. G. 318.
- 1) 3,7,9-Trinitrophenoxazin (*B.* 36, 482 *C.* 1903 [1] 652).
- $C_{12}H_6O_9N_6$ *1) 3,5,3',5'-Tetranitroazoxybenzol. Sm. 183³⁰ (*Am.* 29, 116 *C.* 1903
[1] 709).
- $C_{12}H_6N_2Cl_2$ 2) 2,3-Dichlor-1,4-Naphtisodiazin. Sm. 142° (*B.* 36, 4045 *C.* 1904 [1] 183).
- $C_{12}H_6N_2Cl_4$ *1) 2,4,2',4'-Tetrachlorazobenzol. Sm. 161—162° (*A.* 330, 53 *C.* 1904
[1] 1141).
- $C_{12}H_6N_2Br_4$ 2) 2,4,2',4'-Tetrabromazobenzol. Sm. 179° (*A.* 330, 54 *C.* 1904 [1] 1142).
- $C_{12}H_6Cl_2Br_2$ 1) 3,3'-Dichlor-4,4'-Dibrombiphenyl. Sm. 176—177° (*Soc.* 85, 8 *C.* 1904
[1] 376, 728).
- $C_{12}H_6Cl_2J_2$ 1) 3,3'-Dichlor-4,4'-Dijodbiphenyl. Sm. 162°; Sd. 275¹⁰ (*Soc.* 85, 8
C. 1904 [1] 376, 728).
- $C_{12}H_7O_2N$ *2) 2-Naphtisatin (*B.* 36, 1736 *C.* 1903 [2] 118).
- 8) 7-Oximido-8-Ketoacenaphten. Sm. 230° (*G.* 33 [1] 42 *C.* 1903 [1] 881).
- $C_{12}H_7O_2Cl_3$ 4) 3,5,3'-Trichlor-4,4'-Dioxybiphenyl. Sm. 179° (*Soc.* 85, 11 *C.* 1904
[1] 376, 729).
- $C_{12}H_7O_3N$ *3) Anhydrid d. 3-Amidonaphtalin-1,8-Dicarbonsäure. S.n. noch nicht
bei 360° (*A.* 327, 85 *C.* 1903 [1] 1228).
- 6) 2-Oxy-4,9-Diketo-4,9-Dihydro- $\beta\beta$ -Naphtindol (*E. Hoyer*, Dissert.,
Berlin 1901).
- 7) Anhydrid d. 2-Naphtisatensäure. Sm. 264° (*B.* 36, 1737 *C.* 1903
[2] 119).

- $C_{12}H_7O_4Br$ 3) Benzoylbromisobrenzschleimsäure. Sm. 123° (*C. r.* 136, 50 *C.* 1903 [1] 443).
- 4) Acetat d. 3-Brom-2-Oxy-1,4-Naphtochinon. Sm. 134° (E. Hoyer, Dissert., Berlin 1901).
- $C_{12}H_7O_5N$ C 58,8 — H 2,8 — O 32,7 — N 5,7 — M. G. 245.
- $C_{12}H_7O_5N$ 1) 1,2-Methylenätherester d. 4-Nitro-1-Oxynaphtalin-2-Carbonsäure. Sm. 167—168° (*A.* 330, 102 *C.* 1904 [1] 1076).
- $C_{12}H_7O_5N_3$ 3) 3,9-Dinitrophenoxazin. Zers. oberh. 200° (*B.* 36, 478 *C.* 1903 [1] 651).
- $C_{12}H_7O_5N$ *3) 4-Nitronaphtalin-1,8-Dicarbonsäure (*A.* 327, 82 *C.* 1903 [1] 1227).
- $C_{12}H_7O_7N_3$ *1) Phenyläther d. 2,4,6-Trinitro-1-Oxybenzol. Sm. 153° (*Am.* 29, 213 *C.* 1903 [1] 964).
- $C_{12}H_7O_8N_5$ *1) Di[2,4-Dinitrophenyl]amin. Sm. 197° (*C.* 1903 [2] 1109).
- $C_{12}H_7O_8N_5$ 4) 2',4',6',6'-Tetranitro-4-Oxydiphenylamin. Sm. 225,5° (*B.* 37, 1731 *C.* 1904 [1] 1521).
- $C_{12}H_7ClJ_4$ 1) 3,3',P-Trijoddiphenyljodoniumchlorid. 2 + $PtCl_4$ (*B.* 37, 1309 *C.* 1904 [1] 1340).
- $C_{12}H_7BrJ_4$ 1) 3,3',P-Trijoddiphenyljodoniumbromid. Sm. 109° (*B.* 37, 1309 *C.* 1904 [1] 1340).
- $C_{12}H_8ON_2$ *4) Diphenylenazonoxyd. Sm. 139° (*B.* 37, 24 *C.* 1904 [1] 523).
- *7) 5,10-Naphtiazin-5,10-Oxyd. HCl (*B.* 36, 4142 *C.* 1904 [1] 186).
- 9) 7-Hydrason-8-Ketoacenaphten. Sm. 240—241° (*G.* 33 [1] 47 *C.* 1903 [1] 882).
- $C_{12}H_8OJ_4$ 1) 3,3',P-Trijoddiphenyljodoniumhydroxyd. Salze siehe (*B.* 37, 1308 *C.* 1904 [1] 1340).
- $C_{12}H_8O_2N_2$ *2) 7,8-Dioximidoacenaphten. Sm. 222° (*G.* 33 [1] 44 *C.* 1903 [1] 881).
- *12) 2,3-Dioxy-1,4-Naphtisodiazin (*B.* 35, 4305; *B.* 36, 4044 *C.* 1904 [1] 183).
- 17) Oxim d. 2-Naphtisatin. Sm. 186° u. Zers. (*B.* 36, 1738 *C.* 1903 [2] 119).
- 18) 3-Cyan-2-Methylchinolin-4-Carbonsäure. Sm. 238° u. Zers. (2HCl, $PtCl_4$) (*J. pr.* [2] 67, 504 *C.* 1903 [2] 251).
- $C_{12}H_8O_3N_4$ *2) 5-Nitro-1-Phenyl-1,2,3-Benzotriazol. Sm. 167° (*A.* 332, 99 *C.* 1904 [1] 1570).
- $C_{12}H_8O_3Cl_2$ 8) 3,3'-Dichlor-4,4'-Dioxybiphenyl. Sm. 124° (*Soc.* 83, 691 *C.* 1903 [2] 39; *Soc.* 85, 10 *C.* 1904 [1] 376, 729).
- $C_{12}H_8O_3Br_2$ 3) Acetat d. 2,4-Dibrom-1-Oxynaphtalin. Sm. 92—93° (*A.* 333, 368 *C.* 1904 [2] 1117).
- $C_{12}H_8O_4N_2$ *3) 2,2'-Dinitrobiphenyl. Sm. 124—126° (*B.* 36, 3747 *C.* 1904 [1] 38).
- *5) 4,4'-Dinitrobiphenyl (D. R. P. 147943 *C.* 1904 [1] 133).
- $C_{12}H_8O_4N_4$ *5) 4,4'-Dinitroazobenzol. Sm. 216° (*A.* 330, 28 *C.* 1904 [1] 1141).
- $C_{12}H_8O_4S$ 1) 2-Phenylsulfon-1,4-Benzochinon (*A.* 334, 179 *C.* 1904 [2] 834).
- $C_{12}H_8O_4S_4$ 1) 1,3-Phenylenester d. Benzol-1,3-Di[Thiolsulfonsäure] (*J. pr.* [2] 68, 319 *C.* 1903 [2] 1170).
- $C_{12}H_8O_6N_2$ *2) 2,2'-Dinitrophenyläther. Sm. 114° (*R.* 23, 27 *C.* 1904 [1] 1137).
- *4) 4,4'-Dinitrodiphenyläther. Sm. 141° (*R.* 23, 27 *C.* 1904 [1] 1137).
- 8) 5-Benzoylpyrazol-3,4-Dicarbonsäure. Sm. 220° u. Zers. (*A.* 325, 189 *C.* 1903 [1] 647).
- $C_{12}H_8O_5N_4$ *2) 3,3'-Dinitroazoxybenzol. Sm. 144—145° (141—142°) (*B.* 36, 3807 *C.* 1904 [1] 17; *C.* 1904 [2] 1383).
- *3) 4,4'-Dinitroazoxybenzol. Sm. 191,5° (*B.* 36, 3810, 3829 *C.* 1904 [1] 17; *R.* 23, 31 *C.* 1904 [1] 1137).
- 6) 2,2'-Dinitroazoxybenzol. Sm. 175—175,5° (*B.* 36, 3805, 3813 *C.* 1904 [1] 17).
- $C_{12}H_8O_5Cl_2$ 3) Äthylester d. 6,8-Dichlor-4-Oxy-1,2-Benzpyron-3-Carbonsäure. Sm. 135°. Na (*B.* 36, 463 *C.* 1903 [1] 636).
- $C_{12}H_8O_6N_2$ 7) Nitroderivat d. Verbindung $C_{12}H_8O_4N + H_2O$. Sm. 218° (*R.* 23, 154 *C.* 1904 [2] 194).
- $C_{12}H_8O_6Cl_2$ 1) Di[Chloracetat] d. 5,6-Dioxy-2-Keto-1,2-Dihydrobenzofuran. Sm. 168° (*B.* 37, 820 *C.* 1904 [1] 1151).
- $C_{12}H_8NCl$ *1) 3-Chlorearbazol. Sm. 201,5° (*A.* 332, 96 *C.* 1904 [1] 1571).
- 2) 2-Chlorearbazol. Sm. 244° (*A.* 332, 97 *C.* 1904 [1] 1571).
- $C_{12}H_8N_2Cl_2$ *4) 2,2'-Dichlorazobenzol. Sm. 136° (*J. pr.* [2] 67, 146 *C.* 1903 [1] 870).

- $C_{12}H_8N_3Cl$ 3) 5-Chlor-1-Phenyl-1,2,3-Benztriazol. Sm. 142° (A. 332, 95 C. 1904 [1] 1571).
 4) 2-[4-Chlorphenyl]-2,1,3-Benztriazol. Sm. 167,5—168,5 (B. 36, 3826 C. 1904 [1] 19).
 5) 2-oder-3-Chlor-3-oder-2-Amido-1,4-Naphtisodiazin. Sm. 222° u. Zers. (B. 36, 4049 C. 1904 [1] 184).
- $C_{12}H_8N_3Br$ 2) 2-[4-Bromphenyl]-2,1,3-Benztriazol. Sm. 174° (B. 36, 3825 C. 1904 [1] 18).
- $C_{12}H_8ClJ_3$ 1) Di[3-Jodphenyl]jodoniumchlorid. Sm. 156°. 2 + $PtCl_4$ (B. 37, 1308 C. 1904 [1] 1340).
- $C_{12}H_8Cl_2J_2$ 2) Di[3-Chlorphenyl]jodoniumjodid. Sm. 132° (B. 37, 1316 C. 1904 [1] 1341).
- $C_{12}H_8Cl_2S_2$ *1) Di[4-Chlorphenyl]disulfid. Sm. 70—71° (C. r. 138, 982 C. 1904 [1] 1413).
 2) 2,2'-Dichlordiphenyldisulfid. Sm. 89—90° (C. 1904 [2] 1176).
- $C_{12}H_8Cl_3J$ 2) Di[3-Chlorphenyl]jodoniumchlorid. Sm. 175—177°. 2 + $HgCl_2$, 2 + $PtCl_4$ (B. 37, 1315 C. 1904 [1] 1341).
- $C_{12}H_8BrJ_3$ 1) Di[3-Jodphenyl]jodoniumbromid. Zers. bei 163° (B. 37, 1308 C. 1904 [1] 1340).
- $C_{12}H_8Br_2J_2$ 1) Di[3-Bromphenyl]jodoniumjodid. Sm. 154° (J. pr. [2] 69, 326 C. 1904 [2] 35).
- $C_{12}H_8Br_2S_2$ *1) Di[4-Bromphenyl]disulfid. Sm. 93° (C. r. 138, 982 C. 1904 [1] 1413).
- $C_{12}H_8Br_3J$ 1) Di[3-Bromphenyl]jodoniumbromid. Sm. 178° (J. pr. [2] 69, 326 C. 1904 [2] 35).
- $C_{12}H_9ON$ *9) 3-Benzoylpyridin. Sm. 42°; Sd. 319°₇₄ (B. 36, 2711 C. 1903 [2] 837).
 $C_{12}H_9ON_3$ *1) 2-Phenyl-1,1-Dihydro-2,1,3-Benztriazol-1-Oxyd (Azoazoxybenzol). Sm. 88,5° (B. 32, 3271; B. 36, 3824 C. 1904 [1] 18).
 5) 2-[4-Oxyphenyl]-2,1,3-Benztriazol. Sm. 217—219° (J. pr. [2] 67, 581 C. 1903 [2] 204).
 6) 3-Amido-2-Oxy-5,10-Naphtdiazin. HNO_3 (B. 35, 4304 C. 1903 [1] 344).
- $C_{12}H_9OJ_3$ 1) Di[3-Jodphenyl]jodoniumhydroxyd. Salze siehe (B. 37, 1308 C. 1904 [1] 1340).
- $C_{12}H_9O_2N$ *1) 3-Nitroacenaphten. Sm. 106° (A. 327, 80 C. 1903 [1] 1227).
 *3) 3-Nitrobiphenyl. Sm. 61° (58,5°) (B. 36, 4083 C. 1904 [1] 268; B. 37, 882 C. 1904 [1] 1143).
 *16) Inn. Anhydrid d. Oxyessig-1-Amido-2-Naphtyläthersäure (β -Naphtomorpholon). Sm. 215—216° (Soc. 83, 759 C. 1903 [1] 1419 C. 1903 [2] 448).
 17) β -[4-Chinolyl]akrylsäure. Sm. 250—255°. (2HCl, $PtCl_4$ + $1\frac{1}{2}H_2O$) (B. 37, 1338 C. 1904 [1] 1362).
- $C_{12}H_9O_2N_3$ *2) 2-Nitroazobenzol. Sm. 70,5—71° (B. 36, 3818 C. 1904 [1] 18).
 *3) 3-Nitroazobenzol. Sm. 81—82° (B. 36, 2531 C. 1903 [2] 491; B. 36, 3811 C. 1904 [1] 17).
 *4) 4-Nitroazobenzol. Sm. 134—135° (B. 36, 3811 C. 1904 [1] 17).
- $C_{12}H_9O_2Cl$ 8) 3-Chlor-4,4'-Dioxybiphenyl. Sm. 215° (Soc. 85, 10 C. 1904 [1] 376, 729).
- $C_{12}H_9O_3N$ 26) 5-Acetylamido-1,4-Naphtochinon. Sm. 162° (B. 32, 2879; A. 335, 151 C. 1904 [2] 1136). — *III, 276.
- $C_{12}H_9O_4N$ *8) 2-Methylchinolin-3,4-Dicarbonsäure. Sm. 238—239° (J. pr. [2] 67, 506 C. 1903 [2] 252).
 *21) Verbindung + H_2O (aus d. Verb. $C_{12}H_{10}O_3N_2$) (R. 23, 154 C. 1904 [2] 194).
 22) 1,2-Methylenäther d. 4-Nitro-1-Oxy-2-Oxymethylnaphtalin. Sm. 149° (A. 330, 102 C. 1904 [1] 1076).
 23) 4-Amidonaphtalin-1,8-Dicarbonsäure. Sm. 200° (A. 327, 83 C. 1903 [1] 1227).
 24) 2-Phenylpyrrol-4,5-Dicarbonsäure. Sm. 250° (A. 331, 311 C. 1904 [2] 45).
 25) Nitril d. 4,5-Dioxy-3-Acetoxy-1-Aethenylbenzol-4,5-Methylenäther-2-Carbonsäure (Norcotarannonitrilacetat). Sm. 110° (B. 36, 1533 C. 1903 [2] 52).
- $C_{12}H_9O_4N_3$ *1) 2,4-Dinitrodiphenylamin. Sm. 155—156° (J. pr. [2] 68, 254 C. 1903 [2] 1064).
 8) 3,5-Dinitro-4-Amidobiphenyl. Sm. 233° (B. 37, 883 C. 1904 [1] 1143).

- $C_{12}H_9O_4N_3$ 9) 6-Nitro-3,3'-Dioxyazobenzol. Sm. 205° (*J. pr.* [2] 67, 268. *C.* 1903 [1] 1221).
- $C_{12}H_9O_4Cl$ 10) 2-Nitro-2'-Oxyazoxybenzol. Sm. 91–92° (*B.* 36, 3814 *C.* 1904 [1] 17).
- $C_{12}H_9O_4Br$ *5) Aethylester d. 2-Chlor-1,3-Diketo-2,3-Dihydroinden-2-Carbonsäure. Sm. 72–74° (*B.* 37, 1788 *C.* 1904 [1] 1484).
- $C_{12}H_9O_5N$ *1) Aethylester d. 2-Brom-1,3-Diketo-2,3-Dihydroinden-2-Carbonsäure. Sm. 72–74° (*B.* 37, 1788 *C.* 1904 [1] 1484).
- $C_{12}H_9O_5N$ *5) Oxyessig-1-Nitro-2-Naphtyläthersäure. Sm. 188–189° (*Soe.* 83, 758 *C.* 1903 [1] 1419 *C.* 1903 [2] 448).
- $C_{12}H_9O_5N_3$ *2) 2,4-Dinitro-4'-Oxydiphenylamin (D.R.P. 147862 *C.* 1904 [1] 235).
- 6) 2,4-Dinitro-4'-Amidodiphenyläther. Sm. 144°. *HCl* (*B.* 37, 1518 *C.* 1904 [1] 1596).
- $C_{12}H_9O_6N_5$ *4) 3,2',4'-Trinitro-4-Amidodiphenylamin. Sm. 226° (*B.* 37, 1727 *C.* 1904 [1] 1520).
- 8) 2,4,6-Trinitro-3-Amidodiphenylamin. Sm. 186° (*R.* 21, 325 *C.* 1903 [1] 79).
- $C_{12}H_9O_6N$ C 58,8 — H 3,0 — O 43,4 — N 4,7 — M. G. 295.
- 1) *trans*-1-[4-Nitrophenyl]-R-Trimethylen-1³,2,3-Tricarbonsäure. Sm. 285–290° u. Zers. (*B.* 36, 3508 *C.* 1903 [2] 1274).
- $C_{12}H_9N_3Cl$ *2) 4-Chlorazobenzol. Sm. 88–89° (*B.* 36, 4090 *Ann.* *C.* 1904 [1] 269).
- $C_{12}H_9N_3J$ *1) 4-Jodazobenzol. Sm. 105° (*B.* 37, 1311 *C.* 1904 [1] 1341).
- $C_{12}H_9N_4Cl$ 1) 7-Chlor-2,3-Diamido-5,10-Naphtdiazin. Sm. noch nicht bei 360°. *HCl*, *HNO₃* (*B.* 36, 4029 *C.* 1904 [1] 294).
- $C_{12}H_9N_4Br$ 1) 7-Brom-2,3-Diamido-5,10-Naphtdiazin. Sm. noch nicht bei 360° (*B.* 36, 4032 *C.* 1904 [1] 294).
- $C_{12}H_9ClJ_2$ 2) 3-Chlordiphenyljodoniumjodid. Sm. 130° (*B.* 37, 1317 *C.* 1904 [1] 1341).
- 3) 3-Joddiphenyljodoniumchlorid. Sm. 134°. + *HgCl₂*, 2 + *PtCl₄* (*B.* 37, 1306 *C.* 1904 [1] 1340).
- $C_{12}H_9Cl_2J$ 1) 3-Chlordiphenyljodoniumchlorid. Sm. 163°. 2 + *HgCl₂*, 2 + *PtCl₄* (*B.* 37, 1316 *C.* 1904 [1] 1341).
- $C_{12}H_9BrJ_2$ 2) 3-Bromdiphenyljodoniumjodid. Sm. 146° (*J. pr.* [2] 69, 328 *C.* 1904 [2] 35).
- 3) 3-Joddiphenyljodoniumbromid. Sm. 169° (*B.* 37, 1307 *C.* 1904 [1] 1340).
- $C_{12}H_9Br_2J$ 1) 3-Bromdiphenyljodoniumbromid. Sm. 169° (*J. pr.* [2] 69, 328 *C.* 1904 [2] 35).
- $C_{12}H_{10}ON_2$ *1) Diphenylnitrosamin. Sm. 67,2–67,6° (*C.* 1903 [1] 326; *B.* 36, 2477 *C.* 1903 [2] 559).
- *2) 4-Nitrosodiphenylamin. Sm. 145° (*B.* 36, 4136 *C.* 1904 [1] 185).
- *4) Azoxybenzol. Sm. 38° (*C.* 1903 [1] 324; *R.* 22, 6 *C.* 1903 [1] 1082; *C.* 1904 [2] 1383).
- *5) 4-Oxyazobenzol (*C.* 1903 [1] 325; *R.* 22, 8 *C.* 1903 [1] 1082; *B.* 36, 3010 *C.* 1903 [2] 1031; *C.* 1904 [2] 164; *C. r.* 138, 1278 *C.* 1904 [2] 97).
- *18) 2-Oxyazobenzol. (2*HCl*, *PtCl₄*) (*C.* 1903 [1] 325; *R.* 22, 8 *C.* 1903 [1] 1082; *B.* 36, 4105 *Ann.*, 4107 *C.* 1904 [1] 271; *C.* 1904 [2] 164).
- 23) 3-Oxyazobenzol. Sm. 114–116°. *HCl*, (2*HCl*, *PtCl₄*) (*B.* 36, 4102 *C.* 1904 [1] 271; *C.* 1904 [2] 164).
- $C_{12}H_{10}OJ_2$ 2) 3-Joddiphenyljodoniumhydroxyd. Salze siehe (*B.* 37, 1306 *C.* 1904 [1] 1340).
- $C_{12}H_{10}OS$ *3) Diphenylsulfoxyd. Sm. 70° (*B.* 37, 2154 *C.* 1904 [2] 186).
- 6) 4-Oxydiphenylsulfid. *Fl.* (*B.* 36, 110 *C.* 1903 [1] 454; D.R.P. 147634 *C.* 1904 [1] 131).
- $C_{12}H_{10}O_2N_2$ *11) 2,4-Dioxyazobenzol (*B.* 36, 3010 *C.* 1903 [2] 1031).
- *27) 3,3'-Dioxyazobenzol. Sm. 205° (*J. pr.* [2] 67, 266 *C.* 1903 [1] 1221).
- 30) 3-Nitro-4-Amidobiphenyl. Sm. 167° (*B.* 37, 882 *C.* 1904 [1] 1143).
- 31) Nitril d. α -Imido- β -Benzoyl- γ -Ketobutan- α -Carbonsäure. Sm. 121° (*A.* 332, 157 *C.* 1904 [2] 192).
- $C_{12}H_{10}O_2Br_2$ 1) Dibrombenzencarencarbonsäure. Sm. 168° u. Zers. (*B.* 36, 3506 *C.* 1903 [2] 1274).
- $C_{12}H_{10}O_3N_2$ *16) 3-Keto-4-Methyl-2-Phenyl-2,3-Dihydro-1,2-Diazin-6-Carbonsäure. Sm. 216° (*R.* 23, 146 *C.* 1904 [2] 193).
- 35) 3,3'-Dioxyazoxybenzol. Sm. 182° (*J. pr.* [2] 68, 476 *C.* 1904 [1] 443).

- $C_{12}H_{10}O_3N_2$ 36) 5-Acetyl-4-Phenylpyrazol-3-Carbonsäure. Sm. 208° (A. 325, 185 C. 1903 [1] 646).
 37) 5-Benzoyl-4-Methylpyrazol-3-Carbonsäure. Sm. 233° (A. 325, 188 C. 1903 [1] 647).
 38) 5-Nitro-1-Naphthylamid d. Essigsäure. Sm. 220° (D.R.P. 145 191 C. 1903 [2] 1098).
- $C_{12}H_{10}O_4N_2$ 17) 4-Methylphenylamid d. p-Nitrofuran-2-Carbonsäure. Sm. 162° (C. r. 137, 521 C. 1903 [2] 1069).
- $C_{12}H_{10}O_4Br_4$ 7) $\alpha\beta\gamma\delta$ -Tetrabrom- α -Phenylbutan- $\delta\delta$ -Dicarbonsäure (A. 336, 223 C. 1904 [2] 1733).
- $C_{12}H_{10}O_4S$ *2) 2,5-Dioxydiphenylsulfon. Sm. 195° (B. 36, 112 C. 1903 [1] 454).
 *3) 3,4-Dioxydiphenylsulfon. Sm. 152—153° (B. 36, 112 C. 1903 [1] 454).
- $C_{12}H_{10}O_4S_2$ 2) Benzolsulfoperoxyd. Zers. bei 53—54° (B. 36, 2702 C. 1903 [2] 992).
- $C_{12}H_{10}O_4S_2$ 2) Diphenylsulfid-4,4'-Disulfinsäure. Sm. 107° (R. 22, 360 C. 1904 [1] 23).
- $C_{12}H_{10}O_6N_2$ 15) Aethyläther d. 4,8-Dinitro-1-Oxynaphtalin. Sm. 115° (A. 335, 155 C. 1904 [2] 1136).
- $C_{12}H_{10}O_6S_3$ *1) Diphenylsulfid-4,4'-Disulfonsäure (R. 22, 356 C. 1904 [1] 22).
- $C_{12}H_{10}O_7N_2$ *2) $\alpha\gamma\epsilon$ -Triketo- α -[3,5-Dinitrophenyl]hexan. Sm. 153° (J. pr. [2] 69, 456 C. 1904 [2] 595).
- $C_{12}H_{10}O_{10}N_2$ C 42,1 — H 2,9 — O 46,8 — N 8,2 — M. G. 342.
 1) Triacetat d. 4,6-Dinitro-1,2,3-Trioxybenzol. Sm. 154° (B. 37, 121 C. 1904 [1] 586).
- $C_{12}H_{10}N_2Br_2$ 10) 4-[$\alpha\beta$ -Dibrom- β -Phenyläthyl]-1,3-Diazin. Sm. 225—226° u. Zers. (B. 36, 3384 C. 1903 [2] 1193).
- $C_{12}H_{10}N_2Si$ *1) Silicodiphenyldiimid (See. 83, 252 C. 1903 [1] 572, 875).
- $C_{12}H_{10}BrTi$ 1) Thalliumdiphenylbromid. Zers. oberh. 270° (B. 37, 2060 C. 1904 [2] 20).
- $C_{12}H_{11}ON$ 25) 2-Amido-p-Acetylnaphtalin. Sm. 106° (D. R. P. 56971). — *III, 142.
 26) 2-[α -Oxybenzyl]pyridin (Phenyl- α -Pyridylcarbinol). Sm. 82° (2HCl, PtCl₄) (B. 37, 1371 C. 1904 [1] 1358).
 27) 4-[α -Oxybenzyl]pyridin. Sm. 126° (2HCl, PtCl₄) (B. 37, 1372 C. 1904 [1] 1358).
 28) Amid d. Benznorcaradiëncarbonsäure. Sm. 217° (B. 36, 3506 C. 1903 [2] 1274).
- $C_{12}H_{11}ON_3$ *6) 1-Phenyloxyamidodiazobenzol. Sm. 126—127° (B. 35, 3895 C. 1903 [1] 28).
 12) 4-Oxy-1-Phenylamidodiazobenzol. Sm. 80° (B. 36, 4146 C. 1904 [1] 186).
- $C_{12}H_{11}ON_5$ 2) Amid d. Methyl-4-Dicyanmethylenamidophenylamidoessigsäure. Sm. 211° (B. 37, 2638 C. 1904 [2] 519).
- $C_{12}H_{11}O_2N$ *35) Aethylbetaïn d. Chinolin-4-Carbonsäure. Sm. 204° (M. 24, 201 C. 1903 [2] 48).
 64) β -[4-Chinolyl]propionsäure. Sm. 202—303° (B. 37, 1339 C. 1904 [1] 1362).
 65) 2-Methylphenylamid d. Furan-2-Carbonsäure. Sm. 62° (B. 37, 2955 C. 1904 [2] 993).
 66) 3-Methylphenylamid d. Furan-2-Carbonsäure. Sm. 87° (B. 37, 2955 C. 1904 [2] 993).
 67) 4-Methylphenylamid d. Furan-2-Carbonsäure. Sm. 107,5° (B. 37, 2954 C. 1904 [2] 993).
 68) Phenylimid d. α -Buten- $\alpha\beta$ -Dicarbonsäure. Sm. 108—109° (B. 37, 2383 C. 1904 [2] 306).
 69) Verbindung (aus β -Benzallävulinsäure). Sm. 94° (A. 258, 132). — *II, 986.
- $C_{12}H_{11}O_2N_3$ *1) 4-Nitro-2-Amidodiphenylamin. Sm. 131° (134°) (J. pr. [2] 69, 41 C. 1904 [1] 520; A. 332, 99 C. 1904 [1] 1570).
 *16) 4-Nitro-4'-Amidodiphenylamin (D.R.P. 145 061 C. 1903 [2] 973).
 24) 3-Nitro-4,4'-Diamidobiphenyl. Sm. 190° (B. 37, 2883 C. 1904 [2] 594).
 25) 3,9-Diamidophenoxazoniumhydroxyd. Chlorid + H₂O, 2 Chlorid + PtCl₄, Bichromat (B. 36, 479 C. 1903 [1] 651).
- $C_{12}H_{11}O_2N_5$ 3) Dimethylureidamidcoazin (A. 333, 44 C. 1904 [2] 771).

- $C_{12}H_{11}O_3N$ *28) Aethylester d. Benzoylcyanessigsäure. Sm. 37,5° (A. 332, 150 C. 1904 [2] 192).
- 47) α -Phthalylamido- β -Ketobutan. Sm. 107° (B. 37, 2475 C. 1904 [2] 418).
- 48) 1-Keto-4-Oxy-3-Propionyl-1,2-Dihydroisochinolin. Sm. 231—232° (B. 37, 2485 C. 1904 [2] 420).
- 49) Methyl ester d. α -Cyan- β -Oxy- β -Phenylakrylmethyläthersäure. Sm. 127—128° (C. r. 136, 691 C. 1903 [1] 920).
- $C_{12}H_{11}O_3N_3$ *9) 2[oder 4]-Nitro-4[oder 2]-Amido-4'-Oxydiphenylamin. Sm. 204 bis 205° (D.R.P. 144157 C. 1903 [2] 814).
- 13) Acetyl-4-Methylphenylhydrazoncyanessigsäure. Sm. 225° (J. pr. [2] 67, 407 C. 1903 [1] 1347).
- $C_{12}H_{11}O_3Cl$ 2) Aethylester d. 4-Chlormethylbenzofuran-1-Carbonsäure. Sm. 65 bis 66° (B. 37, 199 C. 1904 [1] 661).
- $C_{12}H_{11}O_3Br$ 4) Bromoxynorcaren-carbonsäure. Sm. 170—173° u. Zers. (B. 36, 3507 C. 1903 [2] 1274).
- $C_{12}H_{11}O_3Br_5$ 2) 4-Acetat d. 2,5,6-Tribrom-3,4-Dioxy-1-[α -Dibrompropyl]benzol-3-Methyläther. Sm. 175° (A. 329, 36 C. 1903 [2] 1437).
- $C_{12}H_{11}O_4N$ 22) γ -Keto- β -Acetyl- α -[3-Nitrophenyl]- α -Buten. Sm. 101—102° (Soc. 83, 1374 C. 1904 [1] 164, 450).
- 23) 6-[α -Oxypropionyl]amido-1,2-Benzpyron. Sm. 159—160° (Soc. 85, 1234 C. 1904 [2] 1124).
- 24) 6,7-Dioxy-2-Methylchinolin-6-Methyläther-5-Carbonsäure. Sm. 212° (HCl, AuCl₃ + H₂O) (B. 36, 2211 C. 1903 [2] 444).
- $C_{12}H_{11}O_4N_3$ *1) 2,4-Diacetyl-3,5-Diketo-1-Phenyltetrahydro-1,2,4-Triazol. Sm. 162° (Am. 30, 38 C. 1903 [2] 363).
- 7) Acetat d. 4-[α -Oximido- α -Phenyläthyl]-1,2,3,6-Dioxiazin. Sm. 150 bis 154° (A. 330, 239 C. 1904 [1] 945).
- 8) Diacetat d. 3,5-Dioxy-1-Phenyl-1,2,4-Triazol. Sm. 113—115° (Am. 30, 37 C. 1903 [2] 363).
- $C_{12}H_{11}O_5N$ 11) 4-Acetylamidobenzoylbrenztraubensäure. Sm. 221,5° (B. 36, 2698 C. 1903 [2] 952).
- 12) 4-Aethoxyphtalylamidoessigsäure. Sm. 179° (B. 37, 1974 C. 1904 [2] 236).
- 13) Methyl ester d. 4,6[oder 4,7]-Dioxy-1-Keto-1,2-Dihydroisochinolin-6[oder 7]-Methyläther-3-Carbonsäure. Sm. 248° (B. 36, 1975 C. 1904 [2] 236).
- 14) 1-Acetat d. 4,5,6-Trioxy-2-Aethenyl-1-Oximidomethylbenzol-4,5-Methylenäther (Norcotarnoximacetat). Sm. 130° (B. 36, 1532 C. 1903 [2] 52).
- 15) 6-Acetat d. 4,5,6-Trioxy-2-Aethenyl-1-Oximidomethylbenzol-4,5-Methylenäther. Sm. 115—116° (B. 36, 1534 C. 1903 [2] 52).
- $C_{12}H_{11}O_5N_3$ C 52,0 — H 4,0 — O 28,9 — N 15,1 — M. G. 277.
- $C_{12}H_{11}O_6N$ 1) Dimethylureidoxyoxazon + H₂O (A. 333, 48 C. 1904 [2] 771).
- 7) trans-1-[4-Amiphenyl]-R-Trimethylen-1²,2,3-Tricarbonsäure. Zers. bei 259° (B. 36, 3508 C. 1903 [2] 1274).
- 8) 6-Methyl ester d. 2-Keto-3,4-Dihydro-1,4-Benzoxazin-4-Methyl-carbonsäure-6-Carbonsäure. Sm. 227° (A. 325, 334 C. 1903 [1] 771).
- $C_{12}H_{11}O_5N$ 4) Triacetat d. 4-Nitro-1,2,3-Trioxybenzol. Sm. 85° (B. 37, 117 C. 1904 [1] 585).
- $C_{12}H_{11}NS$ *2) 4-Amidodiphenylsulfid. Sm. 95° (B. 36, 114 C. 1903 [1] 454).
- $C_{12}H_{11}N_3Cl$ *3) 5-Chlor-2,4'-Diamidobiphenyl. Sm. 169° (166—167°) (B. 36, 4089 C. 1904 [1] 269).
- 8) 4-Chlor-2-Amidodiphenylamin. Sm. 82° (A. 332, 94 C. 1904 [1] 1571).
- $C_{12}H_{12}ON_2$ *7) 4-Amido-4'-Oxydiphenylamin (D.R.P. 139204 C. 1903 [1] 608).
- 41) 4,4'-Diamido-2-Oxybiphenyl. Sm. 226—227° (B. 36, 4113 C. 1904 [1] 272).
- 42) 3-Oxy-s-Diphenylhydrazin. Sm. 126—126,5° (B. 36, 4112 C. 1904 [1] 272).
- 43) Amid d. 2-Naphtylamidoessigsäure. Sm. 164—165° (Bl. [3] 29, 967 C. 1903 [2] 1118).
- $C_{12}H_{12}OSi$ 1) Diphenylsilicon. Sm. 100—110° (B. 37, 1141 C. 1904 [1] 1257).

- $C_{12}H_{12}O_2N_2$ *4) 4-Oxy-5-Phenylhydrazonmethyl-2-Methylfuran. Sm. 140—141° (B. 37, 303 C. 1904 [1] 648).
- *39) Aethylester d. α -Cyan- β -Amido- β -Phenylakrylsäure. Sm. 125° (C. r. 136, 691 C. 1903 [1] 920).
- *51) Aethylester d. 5-Phenylpyrazol-3-Carbonsäure. Sm. 140° (B. 37, 2201 C. 1904 [2] 323).
- 52) 4,4'-Diamido-2,2'-Dioxybiphenyl (J. pr. [2] 67, 270 C. 1903 [1] 1221).
- 53) 6-Acetyl-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 278—281° (B. 36, 1174 C. 1903 [1] 1363).
- 54) Methylster d. α -Cyan- β -Methylamido- β -Phenylakrylsäure. Sm. 128,5° (Bl. [3] 31, 342 C. 1904 [1] 1135).
- $C_{12}H_{12}O_2N_4$ 7) 4-Nitro-2,4'-Diamidodiphenylamin. Sm. 188—189° (B. 37, 1072 C. 1904 [1] 1273).
- 8) 3,7,9-Triamidophenoxazoniumhydroxyd. Chlorid, Bichromat (B. 36, 483 C. 1903 [1] 652).
- 9) Amid d. Acetyl-4-Methylphenylhydrazoncyanessigsäure. Sm. oberh. 250° (J. pr. [2] 67, 408 C. 1903 [1] 1347).
- $C_{12}H_{12}O_2Br_2$ 2) 1-[α -Dibrom- β -Phenyläthyl]-R-Trimethylen-2-Carbonsäure. Sm. 203—204° (B. 37, 2105 C. 1904 [2] 104).
- 3) Methylster d. γ -Dibrom- δ -Phenyl- α -Buten- α -Carbonsäure? Sm. 126° (A. 336, 222 C. 1904 [2] 1733).
- $C_{12}H_{12}O_2Br_4$ 1) Methylster d. α - β - γ -Tetrabrom- δ -Phenylvaleriansäure. Sm. 150° (A. 336, 222 C. 1904 [2] 1733).
- $C_{12}H_{12}O_2Si$ 1) Diphenylsilicol. Sm. 138—139° (B. 37, 1141 C. 1904 [1] 1257).
- $C_{12}H_{12}O_3N_2$ 25) Aethylester d. 5-Keto-3-Phenyl-4,5-Dihdropyrazol-1-Carbonsäure. Sm. 134° (P. GÜRMANN, Dissert., Heidelberg 1903).
- 26) 3-Cyanphenylmonamid d. Bernsteinsäuremonomethylester. Sm. 88—89° (C. 1904 [2] 103).
- $C_{12}H_{12}O_3N_4$ 5) 3-[α -4-Nitrophenylhydrazonäthyl]-5-Methylisoxazol. Sm. 235° u. Zers. (G. 34 [1] 49 C. 1904 [1] 1150).
- 6) 5-[4-Dimethylphenyl]imido-2,4,6-Triketoheptahydro-1,3-Diazin (Dimethylureidindolanil) (A. 333, 37 C. 1904 [2] 770).
- 7) 4-Acetyl-5-[α -Phenylhydrazonäthyl]-1,2,3,6-Dioxidiazin. Sm. 161 bis 162° (C. 1903 [2] 1433).
- $C_{12}H_{12}O_3Br_2$ 4) β -Dibrom- β -Benzoylbutan- α -Carbonsäure. Sm. 150° (C. 1904 [1] 1258).
- 5) 4-Acetat d. 2,5-Dibrom-3,4-Dioxy-1-Propenylbenzol-3-Methyläther. Sm. 123° (A. 329, 26 C. 1903 [2] 1436).
- $C_{12}H_{12}O_3Br_4$ 3) 4-Acetat d. 2,5-Dibrom-3,4-Dioxy-1-[α -Dibrompropyl]benzol-3-Methyläther. Sm. 117—118° (A. 329, 29 C. 1903 [2] 1436).
- $C_{12}H_{12}O_4N_2$ 20) α - β -Di[2-Furanoylamido]äthan. Sm. 200° (B. 37, 2954 C. 1904 [2] 993).
- $C_{12}H_{12}O_4Cl_2$ 6) Diäthylester d. 3,5-Dichlorbenzol-1,2-Dicarbonsäure. Sd. 312 bis 313°₇₆₀ (Soc. 81, 1537 C. 1903 [1] 140).
- $C_{12}H_{12}O_4Br_2$ 10) α -Acetat d. β -Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol-3,4-Methylenäther. Sm. 73—74° (C. 1903 [1] 969).
- $C_{12}H_{12}O_4Br_4$ 1) α -Acetat d. 2,5,6-Tribrom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol-3-Methyläther. Sm. 156—157° (A. 329, 35 C. 1903 [2] 1437).
- $C_{12}H_{12}O_4S_2$ 2) β -Di[Methylsulfon]naphtalin (J. pr. [2] 68, 339 C. 1903 [2] 1172).
- $C_{12}H_{12}O_5N_2$ 5) Dimethylester d. β -Phenylhydrazon- α -Ketoäthan- α - β -Dicarbonsäure. Sm. 104—105° (Bl. [3] 31, 80 C. 1904 [1] 580).
- $C_{12}H_{12}O_6N_2$ *7) Dilaktam d. β - γ -Diimidobutan- α - α - δ -Tetracarbonsäure- α - δ -Diäthylester. $Na_2 + 2H_2O$, $K_2 + 2H_2O$ (A. 332, 122 C. 1904 [2] 189).
- 8) α - α -Dimethylester d. Phenylhydrazonmethan- α - α ,2-Tricarbonsäure. Sm. 186—187° (B. 37, 4172 C. 1904 [2] 1703).
- 9) α - α -Dimethylester d. Phenylhydrazonmethan- α - α ,3-Tricarbonsäure. Sm. 157—158° (B. 37, 4174 C. 1904 [2] 1704).
- 10) α - α -Dimethylester d. Phenylhydrazonmethan- α - α ,4-Tricarbonsäure. Sm. 238° u. Zers. (B. 37, 4175 C. 1904 [2] 1704).
- 11) Diäthylester d. β - γ -Dicyan- α - δ -Diketobutan- α - δ -Dicarbonsäure. Sm. 121—122° (Am. 30, 160 C. 1903 [2] 711).
- 12) 1,2-Phenyleneester d. Acetylamidomeisensäure. Sm. 175° (B. 36, 3217 C. 1903 [2] 1056).
- $C_{12}H_{12}O_7S$ 1) α -Phenyl- α -Buten- δ - δ -Dicarbonsäure- γ -Sulfonsäure. $K_2 + 2H_2O$ (Am. 31, 246 C. 1904 [1] 1080).

- $C_{12}H_{12}O_{12}B_2$ 1) Gem. Anhydrid d. Bernsteinsäure u. Borsäure. Sm. 164° (B. 36, 2224 C. 1903 [2] 421).
- $C_{12}H_{12}NCl$ 6) Chlor-2-Methylphenylat d. Pyridin. $2 + PtCl_4$ (J. pr. [2] 70, 44 C. 1904 [2] 1235).
7) Chlor-3-Methylphenylat d. Pyridin. $+ AuCl_3$ (J. pr. [2] 70, 46 C. 1904 [2] 1236).
- $C_{12}H_{13}NBr$ 2) Brom-2-Methylphenylat d. Pyridin. $+ FeCl_3$ (J. pr. [2] 70, 44 C. 1904 [2] 1235).
3) Brom-3-Methylphenylat d. Pyridin. $+ FeCl_3$ (J. pr. [2] 70, 46 C. 1904 [2] 1236).
4) Brom-4-Methylphenylat d. Pyridin. $+ FeCl_3$ (J. pr. [2] 70, 47 C. 1904 [2] 1236).
- $C_{12}H_{13}ON$ 41) 2-Methylphenylhydroxyd d. Pyridin. Salze siehe (J. pr. [2] 70, 44 C. 1904 [2] 1235).
42) 3-Propyl-5-Phenylisoxazol. Sm. $5-10^\circ$; Sd. $168-169^\circ_{18}$ (C. r. 137, 796 C. 1904 [1] 43).
43) 1-Keto-3-Isobutylpseudoisindol. Sm. 180° (C. r. 138, 988 C. 1904 [1] 1446).
44) 4-Methyl-2-[β -Oxyäthyl] chinolin. Sm. 98° . HCl, (2HCl, $PtCl_4$) (B. 37, 1326 C. 1904 [1] 1360).
45) Methyläther d. 6-Oxy-2,4-Dimethylchinolin $+ 2H_2O$. Sm. 92° . (2HCl, $PtCl_4$) (B. 37, 1334 C. 1904 [1] 1361).
46) Amid d. 1-[β -Phenyläthenyl]-R-Trimethylen-2-Carbonsäure. Sm. 160° (B. 37, 2105 C. 1904 [2] 104).
- $C_{12}H_{13}ON_3$ 6) 1-Acetylamo-2,4-Diamidonaphtalin. Sm. 189° (D.R.P. 151768 C. 1904 [2] 274).
- $C_{12}H_{13}O_2N$ 49) 4-Oxy-1-Keto-3-Isopropyl-1,2-Dihydroisochinolin. Sm. $198-207^\circ$ (B. 37, 1694 C. 1904 [1] 1525).
50) Methyläther d. 6-Oxy-2-Keto-1-Aethyl-1,2-Dihydrochinolin. Fl. (B. 36, 1175 C. 1903 [1] 1364).
51) Methyläther d. 4-Oxy-1-Keto-3-Aethyl-1,2-Dihydroisochinolin. Sm. $160-160,5^\circ$ (B. 37, 1692 C. 1904 [1] 1525).
52) Aethyläther d. 6-Oxy-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 116° . HCl (B. 36, 1174 C. 1903 [1] 1363).
- $C_{12}H_{13}O_2N_3$ *9) Aethylster d. 2-Methylphenylhydrazoncyanessigsäure. Sm. 134° (J. pr. [2] 67, 408 C. 1903 [1] 1347).
21) 4,5,4'-Triamido-2,2'-Dioxybiphenyl. 2HCl (J. pr. [2] 67, 272 C. 1903 [1] 1221).
- $C_{12}H_{13}O_2N_5$ 4) 3,5,7,9-Tetraamidophenoxazoniumhydroxyd. Chlorid, Bichromat (B. 36, 482 C. 1903 [1] 651).
- $C_{12}H_{13}O_3N$ 22) 1,1-Dimethyläther d. 2-Oximido-1,1-Dioxy-1,2-Dihydronaphtalin. Sm. 126° (B. 36, 4169 C. 1904 [1] 287).
23) Dimethyläther d. 6,7-Dioxy-1-Keto-2-Methyl-1,2-Dihydroisochinolin. Sm. 107° ($109-110^\circ$). HCl $+ 2H_2O$, Pikrat (B. 37, 1933 C. 1904 [2] 129; B. 37, 3401 C. 1904 [2] 1318).
24) 6[oder 7]-Aethyläther d. 4,6[oder 4,7]-Dioxy-1-Keto-3-Methyl-1,2-Dihydroisochinolin. Zers. bei 285° (B. 37, 1979 C. 1904 [2] 237).
25) γ -Oximido- α -Phenyl- α -Penten- ϵ -Carbonsäure. Sm. $148-149^\circ$ (A. 258, 132). — *II, 987.
26) Aldehyd d. 6,7-Dioxy-2-Methyl-1,2,3,4-Tetrahydrochinolin-6-Methyläther-5-Carbonsäure. HCl, (2HCl, $PtCl_4$) (B. 36, 2214 C. 1903 [2] 444).
27) Phenylimid d. α -Oxybutan- $\alpha\beta$ -Dicarbonsäure. Sm. $142-143^\circ$ (B. 37, 2382 C. 1904 [2] 306).
28) 4-Methoxyphenylimid d. Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 95° (G. 34 [2] 267 C. 1904 [2] 1453).
- $C_{12}H_{13}O_3N_3$ 9) Methylster d. 5-Oxy-1-Phenyl-1,2,3-Triazoläthyläther-4-Carbonsäure. Sm. $93-94^\circ$ (A. 335, 78 C. 1904 [2] 1230).
- $C_{12}H_{13}O_3N_5$ 2) Aethylster d. 1-Ureido-5-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 208° (B. 36, 3615 C. 1903 [2] 1380).
3) Azid d. α -Benzoylamidoacetylamidopropionsäure. Sm. $101-102^\circ$ u. Zers. (J. pr. [2] 70, 119 C. 1904 [2] 1037).
4) Azid d. α -Benzoylamidopropionylamidoessigsäure. Sm. 84° u. Zers. (J. pr. [2] 70, 155 C. 1904 [2] 1395).

- $C_{12}H_{13}O_3Br$ 1) 4-Acetat d. 5-Brom-3,4-Dioxy-1-Propenylbenzol-3-Methyläther (A. 329, 16 C. 1903 [2] 1435).
- $C_{12}H_{13}O_3Br_2$ *2) 4-Acetat d. 5-Brom-3,4-Dioxy-1- $[\alpha\beta$ -Dibrompropyl]benzol-3-Methyläther. Sm. 130—131° (A. 329, 20 C. 1903 [2] 1435).
- $C_{12}H_{13}O_4N$ *1) γ -Acetoximido- γ -Phenylbuttersäure. Sm. 99° (M. 24, 82 C. 1903 [1] 769).
- 20) Laktol d. β -Nitro-1- $[\alpha$ -Oxy- α -Aethylpropyl]benzol-2-Carbonsäure (Nitrodiäthylphthalid). Sm. 103—104° (B. 37, 736 C. 1904 [1] 1078).
- $C_{12}H_{13}O_4Br$ 8) α -Acetat d. α -Oxyäthyl-3-Brom-4-Oxyphenylketon-4-Methyläther. Sm. 87° (B. 37, 1548 C. 1904 [1] 1437).
- $C_{12}H_{13}O_4Br_2$ *3) Methylenäther - Dimethyläther d. 6-Brom-2,3,4,5-Tetraoxy-1- $[\alpha\beta$ -Dibrompropyl]benzol. Sm. 120° (C. 1903 [1] 970).
- 6) α -Acetat d. 2,5-Dibrom-3,4-Dioxy-1- $[\beta$ -Brom- α -Oxypropyl]benzol-3-Methyläther. Sm. 114—115° (A. 329, 28 C. 1903 [2] 1436).
- $C_{12}H_{13}O_5N$ *13) 4,6,7-Trioxy-2-Methyl-3,4-Dihydrochinolin-6-Methyläther-5-Carbonsäure. Ba + H_2O (HCl, $AuCl_3$) (B. 36, 2210 C. 1903 [2] 443).
- 15) Dimethylester d. 4-Acetylamidobenzol-1,3-Dicarbonsäure. Sm. 126° (B. 36, 1804 C. 1903 [2] 283).
- $C_{12}H_{13}O_5Br$ 2) Methylenäther - Dimethyläther d. 6-Brom-2,3,4,5-Tetraoxy-1-Propionylbenzol. Sm. 128—129° (C. 1903 [1] 970).
- $C_{12}H_{13}O_6N_3$ C 48,8 — H 4,4 — O 32,5 — N 14,2 — M. G. 295.
- 1) Aethylester d. 2-Nitro-4-Acetylamidophenylloxaminsäure. Sm. 174° (B. 36, 417 C. 1903 [1] 631).
- 2) Aethylester d. 3-Nitro-4-Acetylamidophenylloxaminsäure. Sm. 179° (B. 36, 417 C. 1903 [1] 631).
- $C_{12}H_{13}O_7N$ *6) Aethylester d. Nitroopiansäure. Sm. 96° (M. 24, 802 C. 1904 [1] 164).
- $C_{12}H_{13}O_7Br$ *1) Diäthylester d. 5-Brom-2,4,6-Trioxybenzol-1,3-Dicarbonsäure. Sm. 128° (Soc. 85, 167 C. 1904 [1] 163, 722).
- $C_{12}H_{14}ON_2$ *24) 3,3-Dimethyl-2- $[\alpha$ -Oximidoäthyl]pseudoindol. Sm. 175—176° (G. 32 [2] 428 C. 1903 [1] 838).
- 33) Aethyläther d. β -Cyan- α -Imido- α -Oxy- β -Phenylpropan. Sd. 158 bis 159°₉₂₋₉₃ (Am. 32, 33 C. 1904 [2] 954).
- 34) Nitril d. 2-Isovalerylamidobenzol-1-Carbonsäure. Sm. 105,5—106,5° (C. 1903 [1] 175).
- 35) Nitril d. 3-Isovalerylamidobenzol-1-Carbonsäure. Sm. 77—78° (C. 1904 [2] 101).
- $C_{12}H_{14}O_2N_2$ 37) 3,5-Diketo-2,4,4-Trimethyl-1-Phenyltetrahydropyrazol. Sm. 72° (Soc. 83, 1251 C. 1903 [2] 1422).
- $C_{12}H_{14}O_2N_4$ 8) Aethylester d. 1-Phenylamido-5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 162° (A. 325, 157 C. 1903 [1] 644).
- 9) Amid d. 5-Keto-3-Propyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol-4-Carbonsäure. Sm. 133° (B. 36, 1098 C. 1903 [1] 1140).
- $C_{12}H_{14}O_3Br_2$ 6) 3-Methyläther-4-Aethyläther d. α -[2,5-Dibrom-3,4-Dioxyphenyl]-propen. Sm. 79,5 (B. 37, 1131 C. 1904 [1] 1261).
- 7) $\beta\gamma$ -Dibrom- α -Phenylpentan- ϵ -Carbonsäure. Sm. 103—104° u. Zers. (A. 331, 165 C. 1904 [1] 1211).
- 8) Acetat d. 2,6-Dibrom-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 54—55° (A. 333, 355 C. 1904 [2] 1116).
- $C_{12}H_{14}O_2Br_4$ 1) 3-Methyläther-4-Aethyläther d. 2,5-Dibrom-3,4-Dioxy-1- $[\alpha\beta$ -Dibrompropyl]benzol. Sm. 70—71° (B. 37, 1132 C. 1904 [1] 1261).
- $C_{12}H_{14}O_3N_2$ 19) Methylid[3,5-Acetylamido]phenylketon. Sm. 210° (J. pr. [2] 69, 473 C. 1904 [2] 596).
- 20) β -[1-Nitroso-1,2,3,4-Tetrahydro-4-Chinoly]propionsäure. Sm. 121 bis 122° u. Zers. (B. 37, 1340 C. 1904 [1] 1363).
- 21) Aethylester d. β -Phenylhydrazon- α -Ketobuttersäure. Sm. 102—103° (C. r. 138, 1222 C. 1904 [2] 27; C. r. 139, 134 C. 1904 [2] 588).
- 22) Amid d. α -Cyan- β -[3,4-Dioxyphenyl]propion-3,4-Dimethyläthersäure. Sm. 173° (C. 1904 [2] 903).
- $C_{12}H_{14}O_3Br_2$ *9) 4-Acetat d. 3,4-Dioxy-1- $[\alpha\beta$ -Dibrompropyl]benzol-3-Methyläther. Sm. 125—126° (A. 329, 11 C. 1903 [2] 1434).
- $C_{12}H_{14}O_4N_2$ *15) 5-Nitro-2,4-Dimethylphenylimid d. Essigsäure. Sm. 115° (G. 33 [2] 284 C. 1904 [1] 265).
- 20) α -Benzoylamidoacetylamidopropionsäure. Sm. 202°. Ag (J. pr. [2] 70, 114 C. 1904 [2] 1036).

- $C_{12}H_{14}O_4N_2$ 21) α -Benzoylamidopropionylamidoessigsäure. Sm. 166°. Cu, Ag (*J. pr.* [2] 70, 151 *C.* 1904 [2] 1395).
- 22) Dilakton d. Glyazintetrahydrotetramethylmalonsäure. Sm. 270 bis 275° u. Zers. (*Soc.* 83, 1262 *C.* 1903 [2] 1423).
- 23) Dimethylester d. 2-Methylphenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 75–76° (*B.* 37, 4178 *C.* 1904 [2] 1704).
- 24) Dimethylester d. 3-Methylphenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 63° (*B.* 37, 4178 *C.* 1904 [2] 1705).
- 25) Dimethylester d. 4-Methylphenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 89–90° (*B.* 37, 4178 *C.* 1904 [2] 1705).
- 26) Aethylester d. 4-Acetylamidophenylloxaminsäure. Sm. 193° u. Zers. (*B.* 36, 414 *C.* 1903 [1] 630).
- 27) 2-Nitrophenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 77°; Sd. 226–227°₂₁ u. Zers. (*Bl.* [3] 29, 753 *C.* 1903 [2] 629).
- 28) 4-Nitrophenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 94–95°; Sd. 272° (*Bl.* [3] 29, 753 *C.* 1903 [2] 629).
- 29) 2-Methylphenylmonamid d. Oximidomalonsäuremonoäthylester. Sm. 140–141° (*Soc.* 83, 40 *C.* 1903 [1] 73, 442).
- $C_{12}H_{14}O_3N_4$ C 51,8 — H 5,0 — O 23,0 — N 20,1 — M. G. 278.
- 1) Dilaktam d. $\delta\epsilon$ -Diimidooktan- $\gamma\gamma\zeta\zeta$ -Tetracarbonsäure- $\gamma\zeta$ -Diamid (*A.* 332, 128 *C.* 1904 [2] 189).
- 2) $\alpha\alpha$ -Di[Methylamid] d. Phenylhydrazonmethan- $\alpha, \alpha, 2$ -Tricarbonsäure. Sm. 247° (*B.* 37, 4173 *C.* 1904 [2] 1703).
- 3) $\alpha\alpha$ -Di[Methylamid] d. Phenylhydrazonmethan- $\alpha, \alpha, 3$ -Tricarbonsäure. Sm. 247–248° (*B.* 37, 4174 *C.* 1904 [2] 1704).
- 4) $\alpha\alpha$ -Di[Methylamid] d. Phenylhydrazonmethan- $\alpha, \alpha, 4$ -Tricarbonsäure. Sm. oberh. 285° (*B.* 37, 4176 *C.* 1904 [2] 1704).
- 5) Verbindung (aus Acetylisocycansäure u. Phenylhydrazin). Sm. 184° (*B.* 36, 3217 *C.* 1903 [2] 1056).
- $C_{12}H_{14}O_4Br_2$ *3) α -Acetat d. 5-Brom-3,4-Dioxy-1- $[\beta$ -Brom- α -Oxypropyl]benzol-3-Methyläther. Sm. 85–86° (*A.* 329, 19 *C.* 1903 [2] 1435).
- $C_{12}H_{14}O_4S$ 2) Cinnamylidenacetonydrosulfonsäure. K, Ba + 8H₂O (*B.* 37, 4052 *C.* 1904 [2] 1649).
- $C_{12}H_{14}O_5S_2$ 2) 1,3-Di[Allylsulfon]benzol. Sm. 105° (*J. pr.* [2] 68, 321 *C.* 1903 [2] 1170).
- $C_{12}H_{14}O_5N_2$ 11) ϵ -Lakton d. Glyazindihydrotetramethylmalonsäure. Sm. 214° u. Zers. Ba (*Soc.* 83, 1259 *C.* 1903 [2] 1423).
- 12) α -Oxy- γ -Keto- α -[6-Nitro-3-Acetylamidophenyl]butan + 2H₂O. Sm. 62° (142° wasserfrei) (*M.* 24, 9 *C.* 1903 [1] 775).
- 13) β -Amido- α -Benzoylamidoacetoxylpropionsäure. Sm. 176°. NH₄, Ag (*J. pr.* [2] 70, 202 *C.* 1904 [2] 1459).
- 14) Dicyanmalonesteracetylacetonlaktam. Sm. 135° (*A.* 332, 132 *C.* 1904 [2] 190).
- 15) Dimethylester d. 2-Methoxyphenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 112–113° (*B.* 37, 4179 *C.* 1904 [2] 1705).
- 16) Dimethylester d. 4-Methoxyphenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 91° (*B.* 37, 4179 *C.* 1904 [2] 1705).
- $C_{12}H_{14}O_6Br_2$ 1) Methylenäther - Dimethyläther d. 6-Brom-2,3,4,5-Tetraoxy-1- $[\beta$ -Brom- α -Oxypropyl]benzol. Sm. 85–86° (*C.* 1903 [1] 970).
- $C_{12}H_{14}O_6S$ 2) β -[4-Methylphenyl]sulfonpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 169–171° u. Zers. (*Ann.* 31, 176 *C.* 1904 [1] 876).
- $C_{12}H_{14}O_6S_2$ 2) 1,3-Di[Acetonylsulfon]benzol. Sm. 150–151° (*J. pr.* [2] 68, 324 *C.* 1903 [2] 1171).
- $C_{12}H_{14}O_7N_2$ 5) Gemischtes Anhydrid d. Essigsäure u. *p*-Dinitro-1-Isopropyl-*p*-Dihydrobenzol-4-Carbonsäure. Sm. 72° (*M.* 25, 471 *C.* 1904 [2] 333).
- $C_{12}H_{14}O_8N_2$ 2) Säure (aus d. Verb. C₁₆H₁₈O₈N₂). Sm. 158–160° (*Bl.* [3] 31, 530 *C.* 1904 [1] 1555).
- $C_{12}H_{14}O_8N_4$ 2) Amylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 131° (*Soc.* 85, 653 *C.* 1904 [2] 311).
- $C_{12}H_{14}O_8S_2$ 1) 1,3-Phenylendi[α -Sulfonpropionsäure]. Ba (*J. pr.* [2] 68, 328 *C.* 1903 [2] 1171).
- 2) Dimethylester d. 1,3-Phenylendi[Sulfonsäure]. Sm. 96–97° (*J. pr.* [2] 68, 326 *C.* 1903 [2] 1171).

- $C_{12}H_{14}NJ$ *2) Jodäthylat d. 2-Methylchinolin. Sm. 234—235° (B. 37, 2010 C. 1904 [2] 124).
- *3) Jodäthylat d. 4-Methylchinolin. Sm. 142° (B. 37, 2821 C. 1904 [2] 661).
- $C_{12}H_{14}N_2Cl_2$ 4) Chlormethylat d. 5-Chlor-3-Methyl-1-[2-Methylphenyl]pyrazol + 2H₂O. Sm. 210° (wasserfrei) (B. 37, 2229 C. 1904 [2] 228).
- $C_{12}H_{14}N_2S$ *5) 3-Thiocarbonyl-1,4,5-Trimethyl-2-Phenyl-2,3-Dihydropyrazol. HCl, (2HCl, PtCl₄ + 2H₂O), (+ SO₂ + H₂O) (A. 331, 215 C. 1904 [1] 1219).
- 6) 3-Thiocarbonyl-5-Methyl-1-Aethyl-2-Phenyl-2,3-Dihydropyrazol (Aethylthiopyrin). Sm. 171°. + SO₂ (A. 331, 208 C. 1904 [1] 1219).
- 7) Methyläther d. 5-Merkapto-3,4-Dimethyl-1-Phenylpyrazol. Sm. 56°; Sd. 310°. HCl, (2HCl, PtCl₄) (A. 331, 238 C. 1904 [1] 1221).
- 8) Aethyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 308 bis 310° (A. 331, 232 C. 1904 [1] 1221).
- $C_{12}H_{14}ClBr$ 1) α -Chlor- β -Brom- α -[4-Methylphenyl]- γ -Methyl- α -Buten. Sd. 130 bis 140°₁₆ (B. 37, 1089 C. 1904 [1] 1260).
- $C_{12}H_{15}ON$ *4) 1-Benzoylhexahydropyridin. Sd. 320—321° (B. 36, 3524 C. 1903 [2] 1326).
- *14) Phenylamid d. β -Methyl- β -Buten- δ -Carbonsäure. Sm. 106° (C. r. 139, 293 C. 1904 [2] 692).
- *27) γ -Oximido- α -Phenyl- δ -Methyl- α -Penten. Sm. 131—132° (Soc. 81, 1489 C. 1903 [1] 138).
- 34) Methyläther d. 2-Oxy-3-Isopropylpseudoindol. Sm. 82° (M. 24, 572 C. 1903 [2] 887).
- 35) 2-Keto-1-Methyl-3-Isopropyl-2,3-Dihydroindol. Sm. 96° (M. 24, 573 C. 1903 [2] 887).
- 36) 4-Methylphenylamid d. α -Buten- α -Carbonsäure. Sm. 110°; Sd. 230 bis 235°₂₀ (B. 37, 2000 C. 1904 [2] 24).
- 37) 4-Methylphenylamid d. α -Buten- δ -Carbonsäure. Sm. 81,5°; Sd. 205°₁₆ (B. 37, 2000 C. 1904 [2] 24).
- 38) 4-Methylphenylamid d. β -Buten- α -Carbonsäure. Sm. 106° (B. 37, 2000 C. 1904 [2] 24).
- 39) Amid d. 1-[β -Phenyläthyl]-R-Trimethylen-2-Carbonsäure. Sm. 104 bis 105° (B. 37, 2106 C. 1904 [2] 105).
- $C_{12}H_{15}OBr$ 1) α -Bromisobutyl-4-Methylphenylketon. Sm. 57° (B. 37, 1088 C. 1904 [1] 1260).
- $C_{12}H_{15}O_2N$ 40) Methyl-4-Acetylamido-1,3-Dimethylphenylketon (aus Essigsäure-2,4-Dimethylphenylamid). Sm. 119° (D. R. P. 56971). — *III, 127.
- 41) Aethyl-4-Propionylamidophenylketon. Sm. 153° (C. 1903 [1] 1223).
- 42) Methyläther d. δ -[4-Oxyphenyl]imido- β -Ketopentan (Acetylaceton-p-Anisidid). Sm. 49°; Sd. 195°₁₆ (B. 37, 1333 C. 1904 [1] 1361).
- 43) 3-Keto-1-Oxy-1,2-Diäthyl-2,3-Dihydroisindol. Sm. 129—130° (B. 37, 388 C. 1904 [1] 669).
- 44) β -[1,2,3,4-Tetrahydro-4-Chinoly]propionsäure (B. 37, 1340 C. 1904 [1] 1362).
- 45) Methylster d. 8-Amido-1,2,3,4-Tetrahydronaphtalin-1-Carbonsäure. Sm. 53—54°. HCl (B. 35, 4223 C. 1903 [1] 166).
- 46) Acetylphenylamid d. Isobuttersäure. Sm. 49—50° (C. r. 137, 714 C. 1903 [2] 1428).
- $C_{12}H_{15}O_2N_3$ 14) γ -Semicarbazon- α -[6-Oxy-3-Methylphenyl]- α -Buten. Sm. 203° (B. 37, 3186 C. 1904 [2] 991).
- 15) Diäthyläther d. 3,5-Dioxy-1-Phenyl-1,2,4-Triazol. Sm. 46—47° (53°) (Am. 30, 39 C. 1903 [2] 363; B. 36, 3148 C. 1903 [2] 1073).
- $C_{12}H_{15}O_2Br_3$ 3) 3-Methyläther-4-Aethyläther d. 2-Brom-3,4-Dioxy-1-[α -Dibrompropyl]benzol. Fl. (B. 37, 1130 C. 1904 [1] 1261).
- $C_{12}H_{15}O_3N$ *18) Aethylster d. Phenylacetylamidoessigsäure. Sm. 82° (B. 36, 1648 C. 1903 [2] 32).
- *20) Aethylster d. 2-Methylphenylmalonaminsäure. Sm. 78° (Soc. 83, 39 C. 1903 [1] 442).
- *21) Aethylster d. 4-Methylphenylmalonaminsäure. Sm. 86° (Soc. 83, 36 C. 1903 [1] 441).
- *42) Aethylster d. 4-Methylbenzoylamidoessigsäure. Sm. 71° (B. 36, 1648 C. 1903 [2] 32).

- $C_{12}H_{15}O_3N$ 57) Methylenäther d. 6-Acetylamido-3,4-Dioxy-1-Propylbenzol. Sm. 171,5° (*Ar.* 242, 89 *C.* 1904 [1] 1007).
- 58) 6-Methyläther d. 6,7-Dioxy-5-Oxymethyl-2-Methyl-3,4-Dihydrochinolin. Sm. 226° (*HCl*, $AuCl_3 + 4H_2O$) (*B.* 36, 2214 *C.* 1903 [2] 444).
- 59) Aethyl ester d. 2-Acetylphenylamidoessigsäure (*B.* 32, 3234). — *III, 96.
- 60) Aethyl ester d. Aethylphenyloxaminsäure. Sd. 215—220° (*Soc.* 81, 1573 *Ann.* *C.* 1903 [1] 158).
- 61) Phenylmonamid d. Propan- $\beta\beta$ -Dicarbonsäuremonomethylester. Sm. 80° (*Soc.* 83, 1245 *C.* 1903 [2] 1421).
- $C_{12}H_{15}O_3N_3$ 11) Amid d. α -Benzoylamidoacetylamidoäthylamidoameisensäure. Sm. 195° (*J. pr.* [2] 70, 120 *C.* 1904 [2] 1037).
- 12) 4-Nitrophenylamid d. Hexahydropyridin-1-Carbonsäure. Sm. 157° (*Bl.* [3] 29, 410 *C.* 1903 [1] 1363).
- $C_{12}H_{15}O_3Br$ 1) 3-Methyläther-4-Aethyläther d. α -Bromäthyl-3,4-Dioxyphenylketon. Sm. 79° (*B.* 37, 872 *C.* 1904 [1] 1154).
- $C_{12}H_{15}O_3Br_3$ 6) 3-Methyläther-4-Aethyläther d. 2,5-Dibrom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 102—103° (*B.* 37, 1132 *C.* 1904 [1] 1261).
- $C_{12}H_{15}O_4N$ *1) Cotarnin (Aldehyd d. 3,4,5-Triox-1-[β -Methylamidoäthyl]benzol-3-Methyläther-4,5-Methylenäther-2-Carbonsäure) (*B.* 36, 1522 *C.* 1903 [2] 49; *Soc.* 83, 598 *C.* 1903 [1] 1034, 1364; *Soc.* 85, 121 *C.* 1904 [1] 382, 732).
- 46) β -[4-Dimethylamido-2-Oxybenzoyl]propionsäure. Sm. 190° (*C.* 1903 [2] 1433).
- 47) α -Phenylamidoformoxyl- β -Methylpropan- β -Carbonsäure. Sm. 126° *K* (*Bl.* [3] 31, 129 *C.* 1904 [1] 644).
- 48) Diäthylester d. Phenylamin-NN-Dicarbonsäure. Sm. 62° (*B.* 37, 3681 *C.* 1904 [2] 1495).
- 49) 2,3-Dioxyphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 161° (*B.* 37, 109 *C.* 1904 [1] 584).
- 50) α -Acetat d. 4-Acetylamido-1,3-Dioxybenzol-1-Aethyläther. Sm. 91—93° (*J. pr.* [2] 70, 328 *C.* 1904 [2] 1541).
- 51) β -Benzylamid d. 1- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäure- α -Methylester. Sm. 105° (*B.* 37, 2127 *C.* 1904 [2] 439).
- 52) β -[4-Methoxyphenylamid] d. Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 173° (*G.* 34 [2] 268 *C.* 1904 [2] 1454).
- 53) 4-Aethoxyphenylamid d. Acetoxylessigsäure. Sm. 130—131° (*B.* 37, 3975 *C.* 1904 [2] 1605).
- $C_{12}H_{15}O_4N_3$ 10) β -Methyläther-3,4-Methylenäther d. α -Semicarbazon- β -Oxy- α -[3,4-Dioxyphenyl]propan. Sm. 181° (*A.* 332, 335 *C.* 1904 [2] 652).
- 11) α -Phenylhydrazon- γ -Amidobutan- $\alpha\gamma$ -Dicarbonsäure + H_2O . Sm. 156° u. Zers. $K + 4H_2O$ (*R.* 23, 144 *C.* 1904 [2] 193).
- $C_{12}H_{15}O_4N_5$ 2) 8-Diacetylamido-2,6-Diketo-1,3,7-Trimethylpurin. Sm. 145° (*D.R.P.* 139960 *C.* 1903 [1] 859).
- $C_{12}H_{15}O_5N$ 18) 4,6,7-Triox-2-Methyl-1,2,3,4-Tetrahydrochinolin-6-Methyläther-5-Carbonsäure. *HCl*, (2*HCl*, *PtCl*₄) (*B.* 36, 2212 *C.* 1903 [2] 444).
- 19) 3-Methylester- α -Aethyl ester d. 6-Oxyphenylamidoessigsäure-3-Carbonsäure. Sm. 126° (*A.* 325, 322 *C.* 1903 [1] 770).
- $C_{12}H_{15}O_6Cl$ *1) Lakton d. Chlortriacetylalaktonsäure. Sm. 98° (*C.* 1903 [2] 1051).
- $C_{12}H_{15}O_6N_3$ *1) Triäthyläther d. 2,4,6-Trinitro-1,3,5-Trioxbenzol. Sm. 119° (*Am.* 32, 173 *C.* 1904 [2] 950).
- $C_{12}H_{16}ON_2$ *17) Phenylamid d. Hexahydropyridin-1-Carbonsäure. Sm. 168° (*Bl.* [3] 29, 410 *C.* 1903 [1] 1363).
- 25) α -[d-sec. Butyl]- β -Benzylharnstoff. Sm. 105° (*Ar.* 242, 71 *C.* 1904 [1] 999).
- 26) 5-Oxy-3,4,4-Trimethyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 118° (*B.* 36, 1275 *C.* 1903 [1] 1253).
- 27) Cyanhydrin (aus d. Nitril $C_{11}H_{15}ON$). Sm. 106—108° (*C.* 1904 [1] 1082).
- $C_{12}H_{18}O_2N_2$ *20) α -Phenylhydrazon- $\beta\beta$ -Dimethylpropan- α -Carbonsäure. Sm. 153° (*A.* 327, 204 *C.* 1903 [1] 1407).
- 47) 4-Diacetylamido-1-Dimethylamidobenzol. Sm. 68—69° (*A.* 334, 312 *C.* 1904 [2] 986).
- 48) Phenylamidoformiat d. 1-Oxyhexahydropyridin. Sm. 105—106° (*B.* 37, 3236 *C.* 1904 [2] 1153).

- $C_{12}H_{16}O_2N_4$ 4) 7-Nitro-4-Dimethylamido-2,5-Dimethylbenzimidazol. Sm. 146,5° (*J. pr.* [2] 67, 570 *C.* 1903 [2] 241).
- 5) Di[Methylamid] d. 4-Methylphenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 91° (*B.* 37, 4179 *C.* 1904 [2] 1705).
- $C_{12}H_{16}O_2Br_2$ *1) 3-Methyläther-4-Aethyläther d. 3,4-Dioxy-1-[$\alpha\beta$ -Dibrompropyl]-benzol (*B.* 37, 1130 *C.* 1904 [1] 1261).
- $C_{12}H_{16}O_3N_2$ 39) r-Benzoylornithin (r-Monobenzoyl- $\alpha\delta$ -Diamidovaleriansäure). Sm. 228° u. Zers. (*B.* 34, 463). — *II, 1237.
- 40) α -[α -Amidopropionyl]amido- β -Phenylpropionsäure + 2H₂O. Sm. 241—243° (*B.* 37, 3312 *C.* 1904 [2] 1306).
- 41) Aethylester d. α -Benzoylamidoäthylamidoameisensäure. Sm. 140° (*J. pr.* [2] 70, 146 *C.* 1904 [2] 1394).
- 42) Amid d. β -[4-Dimethylamido-2-Oxybenzoyl]propionsäure. Sm. 217 bis 220° u. Zers. (*C.* 1903 [2] 1433).
- 43) Phenylmonohydrazid d. Propan- $\beta\beta$ -Dicarbonsäuremonomethylester. Sm. 111° (*Soc.* 83, 1250 *C.* 1903 [2] 1422).
- $C_{12}H_{16}O_3N_4$ 2) Hydrazid d. α -Benzoylamidoacetylamidopropionsäure. Sm. 187° (*J. pr.* [2] 70, 118 *C.* 1904 [2] 1036).
- 3) Hydrazid d. α -Benzoylamidopropionylamidoessigsäure. Sm. 161 bis 162° (*J. pr.* [2] 70, 154 *C.* 1904 [2] 1395).
- $C_{12}H_{16}O_3Br_2$ *3) 3-Methyläther- α -Aethyläther d. 5-Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 66—67° (*A.* 329, 17 *C.* 1903 [2] 1435).
- 4) 3-Methyläther-4-Aethyläther d. 2-Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 106—107° (*B.* 37, 1131 *C.* 1904 [1] 1261).
- $C_{12}H_{16}O_4N_2$ *1) $\delta\epsilon$ -Dimidol- γ -Diäthanoyl- $\beta\eta$ -Diketooctan (*A.* 332, 147 *C.* 1904 [2] 191).
- 30) Diäthylester d. 3,6-Dimethyl-1,2-Diazin-4,5-Dicarbonsäure. Sm. 22°; Sd. 275° u. Zers. + HgCl₂ (*B.* 36, 508 *C.* 1903 [1] 654; *B.* 36, 2538 *C.* 1903 [2] 727).
- $C_{12}H_{16}O_4N_4$ 2) Methyl ester d. β -Phenylureidoacetylamidomethylamidoameisensäure. Sm. 201° u. Zers. (*J. pr.* [2] 70, 258 *C.* 1904 [2] 1464).
- $C_{12}H_{16}O_4Hg$ 1) Verbindung (aus Methylolhavicol). Fl. (*B.* 36, 3580 *C.* 1903 [2] 1363).
- $C_{12}H_{16}O_5N_2$ 8) Methyläther d. 3,5-Dinitro-4-Oxy-1-tert. Amylbenzol. Sm. 39° (*A.* 327, 213 *C.* 1903 [1] 1408).
- $C_{12}H_{16}O_5N_2$ 6) 2-Oxybenzoylhydrazon d. l-Arabinose. Zers. 191° (*C.* 1904 [2] 1494).
- $C_{12}H_{16}O_5N_2$ *7) $\alpha\delta$ -Diäthylester d. $\beta\gamma$ -Diimidobutan- $\alpha\alpha\delta\delta$ -Tetracarbonsäure. Na₂ (*A.* 332, 124 *C.* 1904 [2] 189).
- $C_{12}H_{18}NJ$ *2) Jodallylat d. 1,2,3,4-Tetrahydrochinolin. Sm. 169—170° (141°?) (*B.* 35, 3910 *C.* 1903 [1] 36).
- $C_{12}H_{16}N_2S_3$ 1) Gem. Anhydrid d. Dimethylamidodithioameisensäure u. Aethylamidodithioameisensäure. Sm. 95° (*B.* 36, 2282 *C.* 1903 [2] 560).
- $C_{12}H_{17}ON$ *17) α -Cyanmethylcampher (*C. r.* 136, 789 *C.* 1903 [1] 1085).
- *18) β -Cyanmethylcampher (*C. r.* 136, 789 *C.* 1903 [1] 1085).
- *25) Diäthylamid d. Phenylessigsäure. Sd. 167—168°₁₅ (*B.* 36, 3525 *C.* 1903 [2] 1326).
- *56) 1-Benzylhexahydropyridin-N-Oxyd. Sm. 148°. HCl, (HCl, AuCl₃), Pikrat (*B.* 37, 3232 *C.* 1904 [2] 1152).
- 61) Amid d. α -Phenylpentan- ϵ -Carbonsäure. Sm. 95—96° (*B.* 37, 2106 *C.* 1904 [2] 105).
- 62) Methylphenylamid d. Isovaleriansäure. Sm. 22°; Sd. 170°₃₀ (*C. r.* 139, 300 *C.* 1904 [2] 703).
- $C_{12}H_{17}ON_3$ 6) Inn. Anhydrid d. Oxymethylenecamphersemicarbazon. Sm. 205 bis 207° (*A.* 329, 130 *C.* 1903 [2] 1323).
- 7) Inn. Anhydrid d. Oxymethylendihydrocarvonsemicarbazon. Sm. 125—127° (und 146—148°) (*A.* 329, 124 *C.* 1903 [2] 1323).
- 8) Inn. Anhydrid d. Oxymethylenthujonsemicarbazon. Sm. 133—134° (*A.* 329, 125 *C.* 1903 [2] 1323).
- 9) Inn. Anhydrid d. Oxymethylenisothujonsemicarbazon. Sm. 193—194° (*A.* 329, 126 *C.* 1903 [2] 1323).
- $C_{12}H_{17}O_2N$ *48) Phenylester d. Diäthylamidoessigsäure. Fl. HCl (*Ar.* 240, 633 *C.* 1903 [1] 24).
- *55) Phenylamidoformiat d. d- α -Oxy- β -Methylbutan. Sm. 30° (*B.* 37, 1049 *C.* 1904 [1] 1249).

- $C_{12}H_{17}O_2N$ 57) 2-Methylphenylester d. Diäthylamidoameisensäure. Sm. 52°; Sd. 178—179°₁₅ (Bl. [3] 31, 20 C. 1904 [1] 508).
- 58) Phenylamidoformiat d. δ -Oxy- β -Methylbutan. Sm. 55° (57—58°) (B. 37, 1049 C. 1904 [1] 1249; Bl. [3] 31, 600 C. 1904 [2] 19).
- 59) Benzylamid d. α -Oxy- β -Methylpropan- β -Carbonsäure. Sm. 64° (Bl. [3] 31, 124 C. 1904 [1] 644).
- $C_{12}H_{17}O_2N_3$ 10) β -Nitro- δ -Phenylhydrazon- β -Methylpentan. Sm. 97° (B. 36, 658 C. 1903 [1] 763).
- $C_{12}H_{17}O_2Br_3$ 1) 1-Bornylester d. Tribromessigsäure. Sm. 61° (C. r. 134, 609 C. 1902 [1] 872). — *III, 339.
- $C_{12}H_{17}O_3N$ 23) Säure (aus d. Cyanhydrin $C_3H_5ON_2$) (C. 1904 [1] 1083).
- 24) Methylester d. 3-Diäthylamido-4-Oxybenzol-1-Carbonsäure. Sd. 285°. HJ (A. 325, 331 C. 1903 [1] 770).
- 25) Aethylester d. 6-Oxy-2-Methyl-5-Propylpyridin-6-Aethyläther-3-Carbonsäure. Sm. 152° (G. 33 [2] 166 C. 1903 [2] 1283).
- 26) 2-Methoxyphenylester d. Diäthylamidoameisensäure. Sd. 299—300° (Bl. [3] 31, 691 C. 1904 [2] 198).
- $C_{12}H_{17}O_3N_3$ 5) Dimethyläther d. β -Semicarbazon- α -[3,4-Dioxyphenyl]propan. Sm. 176° (A. 332, 336 C. 1904 [2] 652).
- 6) β ,4-Dimethyläther d. α -Semicarbazon- β -Oxy- α -[4-Oxyphenyl]propan. Sm. 192° (A. 332, 329 C. 1904 [2] 651).
- $C_{12}H_{17}O_3Cl$ 1) Methylester d. Chloreampnocarbonsäure. Sm. 52—53° (B. 35, 4114 C. 1903 [1] 82).
- 2) Methylester d. isom. Chloreampnocarbonsäure. Sm. 60—61° (B. 35, 4115 C. 1903 [1] 82).
- $C_{12}H_{17}O_3Br$ 3) Methylester d. o-Bromcamphocarbonsäure. Sm. 64—66° (B. 36, 1724 C. 1903 [2] 37; B. 36, 4280 Ann. C. 1904 [1] 457).
- $C_{12}H_{17}O_3J$ 1) Methylester d. o-Jodcamphocarbonsäure. Sm. 71—72° (B. 36, 1725 C. 1903 [2] 37; B. 36, 4276 C. 1904 [1] 457).
- $C_{12}H_{17}O_4N$ 13) ϵ -Benzylidenamido- $\alpha\beta\gamma\delta$ -Tetraoxypentan (Benzalarabinamin). Sm. 160 bis 161° u. Zers. (C. r. 136, 1081 C. 1903 [1] 1305).
- $C_{12}H_{17}O_5N$ 10) Trimethyläther d. 4-Nitro-2,3,5-Trioxyl-1-Propylbenzol. Sm. 65° (B. 36, 1718 C. 1903 [2] 114).
- $C_{12}H_{17}O_5Cl$ 1) Diäthylester d. 2-Chlormethyl-2,3-Dihydrofuran-4-Carbonsäure-5-Methylcarbonsäure. Sd. 198—199°₁₇ (C. r. 137, 12 C. 1903 [2] 507).
- $C_{12}H_{17}O_6N$ 3) ϵ -Aethylester d. γ -Cyan- β -Methylpentan- $\beta\gamma\epsilon$ -Tricarbonsäure. K₂ (Soc. 85, 137 C. 1904 [1] 728).
- 4) Triäthylester d. β -Cyanäthan- $\alpha\alpha\beta$ -Tricarbonsäure. Sm. 45—47° (Ann. 30, 468 C. 1904 [1] 378).
- $C_{12}H_{17}O_6N_3$ 1) 4-Nitrophenylhydrazon d. Rhamnose. Sm. 186° (R. 22, 438 C. 1904 [1] 15).
- $C_{12}H_{17}O_7N_3$ 1) 4-Nitrophenylhydrazon d. Fruktose. Sm. 176° (R. 22, 438 C. 1904 [1] 15).
- 2) 4-Nitrophenylhydrazon d. Galaktose. Sm. 192° (R. 22, 438 C. 1904 [1] 15).
- 3) 4-Nitrophenylhydrazon d. Glykose. Sm. 185° (R. 22, 436 C. 1904 [1] 15).
- 4) isom. 4-Nitrophenylhydrazon d. Glykose. Sm. 195° (R. 22, 436 C. 1904 [1] 15).
- 5) 4-Nitrophenylhydrazon d. Mannose. Sm. 190° (R. 22, 437 C. 1904 [1] 15).
- 6) isom. 4-Nitrophenylhydrazon d. Mannose. Sm. 202° (R. 22, 437 C. 1904 [1] 15).
- $C_{12}H_{17}O_8N_3$ 2) Methylisoamyläther d. 3,5-Dinitro-2,2-Dioxychinolnitrosäure? Na (Ann. 29, 105 C. 1903 [1] 708).
- $C_{12}H_{17}NS$ 3) Phenylamid d. Thioisocapronsäure. Sm. 63° (B. 36, 588 C. 1903 [1] 830).
- $C_{12}H_{18}ON_2$ 19) Methylphenylhydrazid d. Isovaleriansäure. Sm. 61° (M. 24, 576 C. 1903 [2] 887).
- 20) Amid d. α -Diäthylamidophenylessigsäure. Sm. 143—144° (B. 36, 4192 C. 1904 [1] 263).

- $C_{12}H_{18}O_2S$ 4) Acetat d. β -Merkaptopcampher. Sm. 38° (Soc. 83, 483 C. 1903 [1] 923, 1137).
- $C_{12}H_{18}O_3N_2$ 4) Monoacetat d. α -d-Campherdioxim. Sm. $148-149^\circ$ u. Zers. (Soc. 85, 909 C. 1904 [2] 597).
- $C_{12}H_{18}O_8S$ 14) δ -Phenyl- β -Methylpentan- β -Sulfonsäure. $Na + 1\frac{1}{2}H_2O$, $Mg + 3H_2O$, $Ba + H_2O$, $Cu + 3H_2O$ (B. 37, 2308 C. 1904 [2] 216).
- 15) d- α -Phenyl- γ -Methylpentan- β -Sulfonsäure. Ba (B. 37, 654 C. 1904 [1] 938).
- $C_{12}H_{18}O_4N_2$ *3) Diäthylester d. 3,6-Dimethyl-4,5-Dihydro-1,2-Diazin-4,5-Dicarbon-säure. Sm. $68-69^\circ$ (B. 35, 4311 C. 1903 [1] 335; B. 36, 500 C. 1903 [1] 653).
- *4) Methylphenylhydrazon d. l-Arabinose. Sm. 164° (B. 37, 312 C. 1904 [1] 650; B. 37, 3853 C. 1904 [2] 1711).
- *6) Phenylhydrazon d. Fukose. Sm. $170-171^\circ$ ($172-173^\circ$) (B. 37, 307 C. 1904 [1] 649; B. 37, 3859 C. 1904 [2] 1712).
- *8) Pyrazolon (aus 5-Keto-1-Oxy-1,3-Dimethylhexahydrobenzol-3,5-Dicarbon-säurediäthylester) (A. 332, 20 C. 1904 [1] 1565).
- 9) Methylphenylhydrazon d. Xylose. Sm. $108-110^\circ$ (B. 37, 311 C. 1904 [1] 650).
- 10) Aethylester d. α -Cyan- α -Oxyessig- $[\beta$ -Cyan- α -Aethoxybutyl]äther-säure. Sm. 68° ; Sd. 215°_{20} (C. 1904 [1] 159).
- 11) Diäthylester d. 1-Amido-2,5-Dimethylpyrrol-3,4-Dicarbon-säure. Sm. $102-103^\circ$ (B. 35, 4312 C. 1903 [1] 336).
- $C_{12}H_{18}O_4N_6$ C 46,5 — H 5,8 — O 20,6 — N 27,1 — M. G. 310.
- 1) 2,4,2',4'-Tetraketo-3,5,5',5'-Hexamethyloktohydro-1,1'-Azo-imidazol. Zers. bei 278° (C. 1904 [2] 1029).
- $C_{12}H_{18}O_4S$ 4) α -[2-Oxyphenyl]butanäthyläther- β -Sulfonsäure (B. 37, 4000 C. 1904 [2] 1641).
- $C_{12}H_{18}O_4S_2$ 2) α -Isoamylsulfon- α -Phenylsulfonmethan. Sm. $86-88^\circ$ (B. 36, 300 C. 1903 [1] 500).
- *3) 1,3-Di[Propylsulfon]benzol. Sm. $109-110^\circ$ (J. pr. [2] 68, 321 C. 1903 [2] 1170).
- $C_{12}H_{18}O_5N_2$ 14) α -[$\beta\gamma\delta\epsilon$ -Tetraoxyamyl]- β -Phenylharnstoff (Arabinaminphenylharnstoff). Sm. 179° (C. r. 136, 1079 C. 1903 [1] 1305).
- 15) Phenylhydrazid d. Fukonsäure. Sm. $203-204^\circ$ (B. 37, 309 C. 1904 [1] 649).
- 16) Phenylhydrazid d. Rhodeonsäure. Sm. 206° (B. 37, 3860 C. 1904 [2] 1712).
- $C_{12}H_{18}O_6N_2$ *11) Triäthylester d. 4,5-Dihydropyrazol-3,4,5-Tricarbon-säure. Sm. 99° (B. 36, 3513 C. 1903 [2] 1275).
- 12) Diisobutylester d. Bisanhydronitroessigsäure. Sd. $180-185^\circ_{15}$ (Bl. [3] 31, 681 C. 1904 [2] 195).
- $C_{12}H_{18}O_6N_4$ *2) Azin d. Oximidoacetessigsäureäthylester (Diäthylester d. Bisdiazo-acetessigsäure). Sm. 194° u. Zers. (G. 34 [1] 179 C. 1904 [1] 1332; B. 37, 2831 C. 1904 [2] 642).
- $C_{12}H_{16}O_8N_2$ C 45,3 — H 5,7 — O 40,2 — N 8,8 — M. G. 318.
- 1) Monoäthylester d. γ -Amido- δ -Imidohehexan- $\beta\beta\epsilon\epsilon$ -Tetracarbon-säure. Sm. $139-140^\circ$ u. Zers. (B. 35, 4127 C. 1903 [1] 136).
- $C_{12}H_{18}O_{10}N_{12}$ C 27,6 — H 3,8 — O 33,5 — N 35,1 — M. G. 478.
- 1) Verbindung (aus Nitromalonsäureamid) (M. 25, 115 C. 1904 [1] 1553).
- $C_{12}H_{18}NCl$ *1) Chlormethylat d. 1-Aethyl-1,2,3,4-Tetrahydrochinolin. $2 + PtCl_4$ (Soc. 83, 1417 C. 1904 [1] 439).
- 6) d-Methyläthylallylphenylammoniumchlorid. $2 + PtCl_4$ (Soc. 83, 1420 C. 1904 [1] 439).
- 7) Methyläthylallylphenylammoniumchlorid. $2 + PtCl_4$ (B. 36, 3794 C. 1904 [1] 20).
- $C_{12}H_{18}NBr$ 2) Methyläthylallylphenylammoniumbromid. Zers. bei 140° . $+ CHCl_3$ (B. 36, 3796 C. 1904 [1] 20).
- $C_{12}H_{18}NJ$ *7) Methyläthylallylphenylammoniumjodid. Sm. $75-80^\circ$. $+ CHCl_3$ (B. 36, 3793 C. 1904 [1] 20).
- $C_{12}H_{18}N_2S$ 8) α -[d-sec. Butyl]- β -Benzylthioharnstoff. Sm. 58° (Ar. 242, 62 C. 1904 [1] 998).
- $C_{12}H_{19}ON$ *6) Oxim d. Xyliton. Fl. (L. BLACH, Dissert., Heidelberg 1900).

- $C_{12}H_{19}ON$ *10) Methylhydroxyd d. 1-Aethyl-1,2,3,4-Tetrahydrochinolin. d-Bromcamphersulfonat (*Soc.* 83, 1417 *C.* 1904 [1] 439).
- *16) Aethyläther d. 6-Amido-3-Oxy-4-Isopropyl-1-Methylbenzol. *Fl.* (*B.* 36, 2891 *C.* 1903 [2] 875).
- 18) γ -Dimethylamido- β -Oxy- α -Phenyl- β -Methylpropan. *Sd.* 144°₂₄ (*C. r.* 138, 768 *C.* 1904 [1] 1196).
- 19) Methyläthylallylphenylammoniumhydroxyd. d-Bromcamphersulfonat (*Soc.* 83, 1419 *C.* 1904 [1] 439).
- 20) 4-Oximido-6-Isobutenyl-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. *Sm.* 98° (*L. BLACH*, Dissert., Heidelberg 1900).
- $C_{12}H_{19}ON_3$ 21) Oxim d. Isoxyliton. *Fl.* (*L. BLACH*, Dissert., Heidelberg 1900).
- 2) δ -Phenylhydrazon- β -Hydroxylamido- β -Methylpentan. *Sm.* 120°; *Sd.* 140—150°₁₀ u. Zers. Oxalat (*B.* 36, 656 *C.* 1903 [1] 762).
- 4) Semicarbazon d. Santalon. *Sm.* 175° (*Ar.* 238, 373). — *III, 415.
- 5) Inn. Anhydrid d. Oxymethylenmenthonsemicarbazon. *Sm.* 117 bis 118° (und 143—144°) (*A.* 329, 122 *C.* 1903 [2] 1322).
- 6) Inn. Anhydrid d. Oxymethylen-tetrahydrocarvonsemicarbazon. *Sm.* 178—182° (150°) (*A.* 329, 123 *C.* 1903 [2] 1323).
- 7) Inn. Anhydrid d. Oxymethylen-thujamenthonsemicarbazon. *Sm.* 121 bis 122° (und 159—161°) (*A.* 329, 127 *C.* 1903 [2] 1323).
- $C_{12}H_{19}OBr$ 2) Aethylbromcampher. *Sd.* 115—120°₁₀ (*C. r.* 138, 578 *C.* 1904 [1] 948).
- $C_{12}H_{19}OJ$ 1) Verbindung (aus d-Pinen) (*G.* 33 [1] 398 *C.* 1903 [2] 571).
- $C_{12}H_{19}OJ_2$ 1) Verbindung (aus d-Pinen) (*G.* 33 [1] 399 *C.* 1903 [2] 571).
- $C_{12}H_{19}OJ_3$ 1) Verbindung (aus d-Pinen) (*G.* 33 [1] 397 *C.* 1903 [2] 571).
- $C_{12}H_{19}O_2N$ *1) Aethyläther d. Oximidocampher. *Sm.* 71° (*Soc.* 85, 903 *C.* 1904 [2] 597).
- 10) α -Aethyläther d. γ -[4-Methylphenyl]amido- $\alpha\beta$ -Dioxypropan. *Sm.* 41 bis 42° (*B.* 37, 3035 *C.* 1904 [2] 1213).
- 11) α -Oximidoäthylcampher. *Sm.* 164° (*B.* 36, 2637 *C.* 1903 [2] 626).
- 12) Nitril d. 5-Acetoxy-1,1,3-Trimethylhexahydrobenzol-5-Carbonsäure. *Sd.* 146°₁₇ (*D.R.P.* 141699 *C.* 1903 [1] 1245).
- $C_{12}H_{19}O_2N_3$ 4) Semicarbazon d. Oxymethylencampher. *Sm.* 217—218° (*A.* 329, 129 *C.* 1903 [2] 1323).
- 5) Semicarbazon d. Oxymethylen-dihydrocarvon. *Sm.* 163—165° (*A.* 329, 124 *C.* 1903 [2] 1323).
- 6) Semicarbazon d. Oxymethylen-thujon. *Sm.* 179—181° (*A.* 329, 125 *C.* 1903 [2] 1323).
- 7) Semicarbazon d. Oxymethylen-isothujon. *Sm.* 204—205° (*A.* 329, 126 *C.* 1903 [2] 1323).
- $C_{12}H_{19}O_2Cl$ *1) l-Bornylester d. Chloressigsäure. *Sd.* 147°₃₀ (*Ar.* 240, 649 *C.* 1903 [1] 399).
- $C_{12}H_{19}O_2Cl_3$ 4) Verbindung (aus l-Borneol u. Chloral). *Sm.* 48° (*C. r.* 132, 1574). — *III, 338.
- 5) Verbindung (aus i-Borneol u. Chloral). *Sm.* 48° (*C. r.* 132, 1574). — *III, 339.
- $C_{12}H_{19}O_2Br_3$ 3) Verbindung (aus l-Borneol u. Tribromessigsäurealdehyd). *Sm.* 109° (*C. r.* 132, 1574). — *III, 338.
- 4) Verbindung (aus i-Borneol u. Tribromessigsäurealdehyd). *Sm.* 82° (*C. r.* 132, 1574). — *III, 339.
- $C_{12}H_{19}O_3N$ 7) Trimethyläther d. Dimethyl-3,4,5-Trioxybenzylamin (N-Methylmezcalin). (2HCl, PtCl₄), HJ (*B.* 31, 1195; 34, 3011). — *III, 601.
- $C_{12}H_{19}O_4N$ 11) Diäthylester d. cis- α -Cyan- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. *Sd.* 172°₁₇ (*C. r.* 136, 243 *C.* 1903 [1] 565).
- 12) Diäthylester d. γ -Cyan- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. *Sd.* 185°₂₀ (*Soc.* 83, 355 *C.* 1903 [1] 389, 1122).
- 13) Diäthylester d. α -Cyan- β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. *Sd.* 175 bis 185°₂₀ (*C.* 1903 [2] 1425).
- $C_{12}H_{19}O_4N_3$ 2) 2,5-Diketo-4,4-Dimethyl-1-Allyltetrahydroimidazol-3- α -Amidoisobuttersäure. *Sm.* 114° (*C.* 1904 [2] 1029).
- $C_{12}H_{19}O_4P$ 1) Säure (aus Benzaldehyd). *Sm.* 192° (*C. r.* 138, 1708 *C.* 1904 [2] 423).
- 2) Säure (aus Isovaleraldehyd). *Sm.* 203—205° (*C. r.* 138, 1709 *C.* 1904 [2] 423).
- 3) Säure. *Sm.* 170° (*C. r.* 138, 1708 *C.* 1904 [2] 423).

- $C_{12}H_{19}O_6N_3$ C 50,5 — H 6,7 — O 28,1 — N 14,7 — M. G. 285.
 1) Diäthylester d. Azodiazobisacetessigsäure. Sm. 140° u. Zers. (G. 34 [1] 209 C. 1904 [1] 1486).
- $C_{12}H_{19}O_6Cl$ 2) Triäthylester d. α -Chlorpropan- $\alpha\alpha\gamma$ -Tricarbonsäure. Fl. (Soc. 85, 863 C. 1904 [2] 512).
- $C_{12}H_{19}O_6Br$ 1) Triäthylester d. α -Brompropan- $\alpha\alpha\gamma$ -Tricarbonsäure. Fl. (C. 1903 [1] 628; Soc. 85, 863 C. 1904 [2] 512).
- $C_{12}H_{19}O_6J$ 1) Triäthylester d. α -Jodpropan- $\alpha\alpha\gamma$ -Tricarbonsäure. Fl. (C. 1903 [1] 628; Soc. 85, 863 C. 1904 [2] 512).
- $C_{12}H_{20}OS_2$ 2) Methylester d. Bornylxanthogensäure. Sm. 56—57° (C. 1904 [2] 983).
 $C_{12}H_{20}O_3N_2$ C 60,0 — H 8,3 — O 20,0 — N 11,7 — M. G. 240.
- 1) 2,4,6-Triketo-5,5-Diisobutylhexahydro-1,3-Diazin. Sm. 173,5° (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 346 C. 1904 [2] 1381).
 2) 2,4,6-Triketo-1,3,5,5-Tetraäthylhexahydro-1,3-Diazin. Sd. 125,5 bis 126° (A. 335, 349 C. 1904 [2] 1381).
 3) Methylhydroxyd d. Isopilocarpin. Salze siehe (C. 1897 [1] 1214; Bl. [3] 17, 563; Soc. 77, 485, 853; B. 35, 2442). — *III, 685.
- $C_{12}H_{20}O_4N_2$ 6) Azin d. Acetessigsäureäthylester. Sm. 47—48° (B. 37, 2830 C. 1904 [2] 642).
- $C_{12}H_{20}NJ$ 7) Dimethylisobutylphenylammoniumjodid. Sm. 155—156° (Soc. 83, 1408 C. 1904 [1] 438).
- $C_{12}H_{20}N_2J_2$ *3) Dijodmethylat d. i-Nikotin. Sm. 219° (B. 37, 1228 C. 1904 [1] 1278).
- $C_{12}H_{20}N_2S_3$ 1) Sulfid d. Hexahydropyridin-1-Dithiocarbonsäure. Sm. 120° (B. 36, 2281 C. 1903 [2] 560).
- $C_{12}H_{21}ON$ 19) Methylpropylphenylammoniumhydroxyd. Jodid, d-Camphersulfonat (Soc. 83, 1409 C. 1904 [1] 438).
- $C_{12}H_{21}OBr$ 1) Verbindung (aus Phellandrendibromid). Sd. 125—135°₁₀ (B. 36, 1754 C. 1903 [2] 117).
 5) Acetylupinin. (HCl, AuCl₃) (Ar. 235, 276). — *III, 664.
- $C_{12}H_{21}O_3N$ 2) Semicarbazond. Oxymethylenmenthon. Sm. 167—169° (A. 329, 121 C. 1903 [2] 1322).
 $C_{12}H_{21}O_3N_3$ 3) Semicarbazond. Oxymethylenthujamenthon. Sm. 125—145° (A. 329, 127 C. 1903 [2] 1323).
- $C_{12}H_{21}O_2Cl$ *2) l-Menthylester d. Chloressigsäure. Sm. 38° (Ar. 240, 646 C. 1903 [1] 399).
- $C_{12}H_{21}O_3Br$ 4) Hydrobromid d. $\beta\zeta$ -Dimethyl- $\alpha\theta$ -Nonadien- ι -Carbonsäure. Fl. (B. 36, 2799 C. 1903 [2] 877).
- $C_{12}H_{21}O_3N$ 10) Diäthylester d. r-Tropinsäure. Sd. 160°_{13,5} (B. 33, 414). — *III, 615.
- $C_{12}H_{21}O_3B$ 1) Gem. Anhydrid d. Buttersäure u. Borsäure. Fl. (B. 36, 2223 C. 1903 [2] 421).
 C 46,9 — H 6,8 — O 41,7 — N 4,6 — M. G. 307.
- $C_{12}H_{21}O_3N$ 1) Diisobutylester d. Nitroweinsäure. Fl. (B. 35, 4367 C. 1903 [1] 321; B. 36, 780 C. 1903 [1] 826).
- $C_{12}H_{21}O_{11}N$ *1) Chondrosin (H. 37, 411 C. 1903 [1] 1146).
- $C_{12}H_{21}N_2J$ 2) Jodpropylat d. s-Propylphenylhydrazin (C. r. 137, 330 C. 1903 [2] 716; Bl. [3] 29, 970 C. 1903 [2] 1115).
- $C_{12}H_{22}ON_2$ *6) Nitrolpiperidid d. 5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 152 bis 153° (B. 36, 329; A. 329, 370 C. 1904 [1] 516).
 7) 5-Keto-3-Methyl-4-norm. Oktyl-4,5-Dihydropyrazol. Sm. 182° (Bl. [3] 31, 762 C. 1904 [2] 343).
 8) 5-Keto-3-Methyl-4-sec. Oktyl-4,5-Dihydropyrazol. Sm. 137° (Bl. [3] 31, 762 C. 1904 [2] 343).
- $C_{12}H_{22}OS_2$ *1) Methylester d. Menthylxanthogensäure (C. 1904 [1] 1347).
 2) Methylester d. Thujamenthylxanthogensäure. Fl. (B. 37, 1485 C. 1904 [1] 1349).
- $C_{12}H_{22}O_2N_2$ *3) 2,5-Diketo-3,6-Diisobutylhexahydro-1,4-Diazin. Sm. 265° (B. 37, 1182 C. 1904 [2] 1710).
 C 51,1 — H 7,8 — O 11,3 — N 29,8 — M. G. 282.
- $C_{12}H_{22}O_2N_6$ 1) 2,3-Disemicarbazond-4-Isopropyl-1-Methylhexahydrobenzol. Sm. 268 bis 270° u. Zers. (C. 1904 [2] 1044).
 2) Semicarbazond d. Semicarbazidodihydroumbellulon. Sm. 217° u. Zers. (Soc. 85, 635 C. 1904 [1] 1607 C. 1904 [2] 333).
- $C_{12}H_{22}O_2Br_2$ 1) Dihydrobromid d. $\beta\zeta$ -Dimethyl- $\alpha\theta$ -Nonadien- ι -Carbonsäure. Fl. (B. 36, 2800 C. 1903 [2] 877).

- $C_{12}H_{22}O_3Br_4$ 1) Tetrabromid d. Glykol $C_{12}H_{22}O_2$ (*M.* 24, 158 *C.* 1903 [1] 957).
 $C_{12}H_{22}O_3N_2$ 1) Di[2-Oxyhexahydrophenyl]nitrosamin. Sm. 148° (*C. r.* 137, 199 *C.* 1903 [2] 665).
 2) isom. Di[2-Oxyhexahydrophenyl]nitrosamin. Sm. 171° (*C. r.* 137, 199 *C.* 1903 [2] 665).
 $C_{12}H_{22}O_3N_2$ C 52,6 — H 8,0 — O 29,2 — N 10,2 — M. G. 274.
 1) Verbindung (aus Acetylen). Sd. 135—140°₅₅ (*G.* 33 [2] 321 *C.* 1904 [1] 255).
 $C_{12}H_{23}ON$ 9) l-P-Menthylamid d. Essigsäure. Sm. 136—137° (*C.* 1904 [2] 1046).
 $C_{12}H_{23}ON_3$ C 64,0 — H 10,2 — O 7,1 — N 18,7 — M. G. 225.
 1) Semicarbazon d. isom. l-Methylmenthon. Sm. 203—204° (*C.* 1904 [2] 1046).
 $C_{12}H_{23}OCl$ *1) Chlorid d. Laurinsäure. Sd. 135—140°₁₀ (*Bl.* [3] 29, 1122 *C.* 1904 [1] 259).
 $C_{12}H_{23}O_2N$ 8) Di[2-Oxyhexahydrophenyl]amin. Sm. 153°. HCl (*C. r.* 137, 199 *C.* 1903 [2] 665).
 9) isom. Di[2-Oxyhexahydrophenyl]amin. Sm. 114°. HCl (*C. r.* 137, 199 *C.* 1903 [2] 665).
 10) Methyl ester d. l-Menthylamidoameisensäure. Sm. 53° (*Soc.* 85, 689 *C.* 1904 [2] 332).
 11) Aethyl ester d. 1,2,2,5,5-Pentamethyltetrahydropyrrol-3-Carbonsäure. Sd. 227°₇₆₀ (*B.* 36, 3361 *C.* 1903 [2] 1185).
 $C_{12}H_{23}O_2Br$ *1) α -Bromundekan- α -Carbonsäure (α -Laurinsäure). Sm. 32° (*Bl.* [3] 29, 1123 *C.* 1904 [1] 259).
 $C_{12}H_{23}O_3N_3$ 2) sec. Oktyl ester d. α -Semicarbazonpropionsäure. Sm. 118—119° (*C. r.* 138, 985 *C.* 1904 [1] 1398).
 $C_{12}H_{23}O_4N_3$ 2) Aethyl ester d. α -Amidoisocapronylamidoacetylamidoessigsäure. Fl. HCl (*B.* 36, 2991 *C.* 1903 [2] 1112).
 $C_{12}H_{24}O_2N_4$ 2) γ -Oximido- β -Semicarbazon- δ -Methyldekan. Sm. 178° (*Bl.* [3] 31, 1169 *C.* 1904 [2] 1701).
 $C_{12}H_{24}O_3N_2$ *3) i- α -[α -Amidoisocapronyl]amidoisocapronsäure + 1 1/2 H₂O (i-Leucyl-leucin) (*B.* 37, 2493 *C.* 1904 [2] 425).
 $C_{12}H_{24}O_5N_2$ C 54,1 — H 5,3 — O 30,1 — N 10,5 — M. G. 266.
 1) d-Kaseinsäure. Sm. 226° (228°). Cu (*B.* 37, 1597 *C.* 1904 [1] 1449; *H.* 42, 290 *C.* 1904 [2] 958).
 2) r-Kaseinsäure. Sm. 246°. Cu (*B.* 37, 1597 *C.* 1904 [1] 1449; *H.* 42, 295 *C.* 1904 [2] 958).
 $C_{12}H_{24}O_5N_2$ C 42,3 — H 7,1 — O 42,3 — N 8,2 — M. G. 340.
 1) Verbindung. Zers. bei 170° (*M.* 24, 451 *C.* 1903 [2] 588).
 $C_{12}H_{24}O_{16}N_2$ 3) Di[$\beta\gamma\delta$ -Tetraoxyamylamid] d. Oxalsäure (Arabinoxamid). Sm. 217 bis 218° (*C. r.* 136, 1079 *C.* 1903 [1] 1305).
 $C_{12}H_{25}ON$ *1) Amid d. Laurinsäure. Sm. 98—99° (*Bl.* [3] 29, 1209 *C.* 1904 [1] 355).
 3) ϵ -Oximidomethyl- β^{ϵ} -Dimethylnonan. Sd. 153°₂₉ (*Bl.* [3] 31, 307 *C.* 1904 [1] 1133).
 $C_{12}H_{25}ON_3$ *1) β -Semicarbazonundekan. Sm. 122° (*Soc.* 81, 1588 *C.* 1903 [1] 29, 162; *Bl.* [3] 29, 676 *C.* 1903 [2] 487).
 *2) β -Semicarbazon- δ -Methyldekan. Sm. 66° (*Bl.* [3] 31, 1158 *C.* 1904 [2] 1708).
 3) α -Semicarbazonundekan. Sm. 103° (*Bl.* [3] 29, 1205 *C.* 1904 [1] 355).
 $C_{12}H_{25}O_4N$ C 58,3 — H 10,1 — O 25,9 — N 5,7 — M. G. 247.
 1) β -Diäthylamidoformiat d. $\alpha\beta\gamma$ -Trioxypropan- $\alpha\gamma$ -Diäthyläther. Sd. 260—262° (*Bl.* [3] 31, 691 *C.* 1904 [2] 198).
 $C_{12}H_{26}O_4S_2$ 1) $\alpha\alpha$ -Di[Isoamylsulfon]äthan. Sm. 130° (*B.* 36, 298 *C.* 1903 [1] 499).
 $C_{12}H_{26}O_5N_2$ C 51,8 — H 9,3 — O 28,8 — N 10,1 — M. G. 278.
 1) Diamidotrioxundekancarbonsäure. Sm. 255° u. Zers. Cu (*H.* 42, 540 *C.* 1904 [2] 1417).
 $C_{12}H_{26}O_5S_3$ 2) $\beta\beta\epsilon$ -Triäthylsulfonhexan. Sm. 125—130° (*B.* 37, 508 *C.* 1904 [1] 883).
 $C_{12}H_{26}NJ$ 5) Jodmethylat d. Dihydro- β -Dimethylamidocampholen. Sm. 270° u. Zers. (*C. r.* 136, 1461 *C.* 1903 [2] 287).
 $C_{12}H_{27}ON$ 3) Methylhydroxyd d. Dihydro- β -Dimethylamidocampholen (*C. r.* 136, 1461 *C.* 1903 [2] 287).
 $C_{12}H_{27}O_3B$ *1) Triisobutylester d. Borsäure. Sd. 212° (*B.* 36, 2221 *C.* 1903 [2] 420).
 $C_{12}H_{28}NCl$ 1) Tetrapropylammoniumchlorid. 2 + PtCl₄ (*C.* 1904 [1] 923).

- $C_{12}H_{30}N_3P$ 1) Tri[Isobutylamido]phosphin. Fl. (A. 326, 151 C. 1903 [1] 760).
 2) Tri[Diäthylamido]phosphin. Sd. 245—246° u. ger. Zers. (A. 326, 169 C. 1903 [1] 762).

— 12 IV —

- $C_{12}H_4O_5N_3Cl_3$ 1) 2,3,5-oder-2,3,6-Trichlor-4-[2,4-Dinitrophenyl]imido-1-Keto-1,4-Dihydrobenzol. Sm. 211° (B. 36, 3268 C. 1903 [2] 1126; B. 37, 1727 C. 1904 [1] 1520).
 2) 3,5,?-Trichlor-4-[2,4-Dinitrophenyl]imido-1-Keto-1,4-Dihydrobenzol. Sm. 216° (B. 36, 3265 C. 1903 [2] 1126).
- $C_{12}H_5ONCl_4$ 1) 2,3,5-Trichlor-4-[4-Chlorphenyl]imido-1-Keto-1,4-Dihydrobenzol. Sm. 153° (C. 1898 [2] 36). — *III, 258.
- $C_{12}H_5O_3N_3Cl_2$ 1) 2,6-Diketo-4-[2,4-Dinitrophenyl]imido-1-Keto-1,4-Dihydrobenzol. Sm. 219—220° (B. 36, 3262 C. 1903 [2] 1126).
- $C_{12}H_5O_3N_5Cl_2$ 1) 2',4'-Dichlor-2,4,?,?-Tetranitrodiphenylamin. Sm. 198° (B. 36, 34 C. 1903 [1] 521).
- $C_{12}H_5O_3N_4Br$ 1) 4-Brom-2,2',4',6'-Tetranitrodiphenyläther. Sm. 232° (Am. 29, 215 C. 1903 [1] 964).
- $C_{12}H_5O_3N_3Cl_3$ 1) 2,4,6-Trichlor-2'-Nitroazobenzol. Sm. 143° (B. 36, 3820 C. 1904 [1] 18).
- $C_{12}H_6O_3N_2S$ 1) Nitroindophenin (B. 37, 3349 C. 1904 [2] 1058).
- $C_{12}H_6O_3N_3Cl_3$ 1) 2,3,5-oder-2,3,6-Trichlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 211° (B. 36, 3269 C. 1903 [2] 1126).
- $C_{12}H_6O_3N_2Br_2$ 1) 3-Brom-?-Dinitro-4,4'-Dioxybiphenyl. Zers. bei 241° (A. 333, 364 C. 1904 [2] 1117).
- $C_{12}H_6O_6N_4S_2$ *1) 4,4'-Bidiazobiphenyl-2,2'-Disulfonsäure + 2H₂O (J. pr. [2] 66, 572 C. 1903 [1] 519).
- $C_{12}H_6O_3N_6S_2$ 1) Diazoderivat d. 2,2'-Diamidoazobenzol-4,4'-Disulfonsäure + 2H₂O (A. 330, 21 C. 1904 [1] 1139).
- $C_{12}H_6O_3N_4Cl_2$ 1) 3,5-Dichlor-2,2',4'-Trinitro-4-Oxydiphenylamin. Sm. 235° (B. 37, 1730 C. 1904 [1] 1521).
 2) 3,5-Dichlor-2',4',6'-Trinitro-4-Oxydiphenylamin. Sm. 225° (B. 37, 1730 C. 1904 [1] 1521).
- $C_{12}H_6O_7Br_3S$ 1) ?-Dibromnaphtalin-1,8-Dicarbonsäure-?-Sulfonsäure. Sm. 204 bis 205°. Ba + 8H₂O (C. 1903 [2] 725).
- $C_{12}H_6O_3N_5Cl$ 1) 4'-Chlor-2',4',?,?-Tetranitrodiphenylamin. Sm. 182—183° (B. 36, 33 C. 1903 [1] 520).
- $C_{12}H_7ONS$ *1) Indophenin (B. 37, 2463 C. 1904 [2] 368).
- $C_{12}H_7O_2N_3Br$ 1) 3-Brom-7,8-Dioximidoacenaphten (A. 327, 88 C. 1903 [1] 1228).
- $C_{12}H_7O_3N_2Br_3$ 2) 4,5,6-Trinitro-2-Nitrodiphenylamin. Sm. 138—139° (Am. 30, 77 C. 1903 [2] 356).
- $C_{12}H_7O_2N_3Cl_2$ 2) 2,4-Dichlor-2'-Nitroazobenzol. Sm. 155,5° (B. 36, 3820 C. 1904 [1] 18).
- $C_{12}H_7O_4NS_2$ 1) Indopheninsulfonsäure. Ba (B. 37, 2464 Anm. C. 1904 [2] 368).
- $C_{12}H_7O_4N_3Cl_2$ 2) 2',4'-Dichlor-2,4-Dinitrodiphenylamin. Sm. 166° (B. 36, 33 C. 1903 [1] 521).
- $C_{12}H_7O_3N_3Cl_2$ 1) 3,5-Dichlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 207° (B. 36, 3264 C. 1903 [2] 1126).
- $C_{12}H_7O_3N_4Cl$ *3) 4'-Chlor-2,4,6-Trinitrodiphenylamin. Sm. 170° (J. pr. [2] 67, 469 C. 1903 [1] 1422).
 4) 2'-Chlor-2,4,4'-Trinitrodiphenylamin. Sm. 165—166° (B. 36, 32 C. 1903 [1] 520).
 5) 3'-Chlor-2,4,?-Trinitrodiphenylamin. Sm. 209° (?) (B. 36, 33 C. 1903 [1] 520).
- $C_{12}H_7O_7N_4Cl$ 1) 5-Chlor-2,2',4'-Trinitro-4-Oxydiphenylamin. Sm. 252° u. Zers. (B. 37, 1728 C. 1904 [1] 1520).
 2) 5-Chlor-3,2',4'-Trinitro-4-Oxydiphenylamin. Sm. 232° (B. 37, 1729 C. 1904 [1] 1520).
 3) 3-Chlor-2',4',6'-Trinitro-4-Oxydiphenylamin. Sm. 185,5° (B. 37, 1728 C. 1904 [1] 1520).
 4) 2-Chlor-2',4',?-Trinitro-4-Oxydiphenylamin. Sm. 232,5° (B. 37, 1729 C. 1904 [1] 1521).

- $C_{12}H_8ON_2Cl_2$ 4) 2,2'-Dichlorazoxybenzol. Sm. 56° (*J. pr.* [2] 67 148 *C.* 1903 [1] 870).
- $C_{12}H_8ON_2Br_2$ 5) Phenazin-N-Oxydibromid. Sm. 132—133° HBr (*B.* 36, 4141 *C.* 1904 [1] 185).
- $C_{12}H_8ON_3Cl$ 2) 2-[4-Chlorphenyl]-1,1-Dihydro-2,1,3-Benzotriazol-1-Oxyd. Sm. 155,5—156,5° (*B.* 36, 3826 *C.* 1904 [1] 19).
- 3) 7-Chlor-3-Amido-2-Oxy-5,10-Naphtdiazin. HCl, HNO₃ (*B.* 36, 4030 *C.* 1904 [1] 294).
- $C_{12}H_8ON_3Br$ 1) 2-[4-Bromphenyl]-1,1-Dihydro-2,1,3-Benzotriazol-1-Oxyd. Sm. 162—162,5° (*B.* 36, 3825 *C.* 1904 [1] 18).
- 2) 7-Brom-3-Amido-2-Oxy-5,10-Naphtdiazin (*B.* 36, 4032 *C.* 1904 [1] 294).
- $C_{12}H_8O_2N_3Cl$ 4) 4-Chlor-2'-Nitroazobenzol. Sm. 145—146° (*B.* 36, 3819 *C.* 1904 [1] 18).
- $C_{12}H_8O_2N_3Br$ 5) 4-Brom-2'-Nitroazobenzol. Sm. 152,5° (*B.* 36, 3820 *C.* 1904 [1] 18).
- $C_{12}H_8O_4NBr$ 1) Acetat d. 6-Brom-1-Nitro-2-Oxynaphtalin. Sm. 115—117° (*A.* 333, 370 *C.* 1904 [2] 1117).
- $C_{12}H_8O_4N_2S_2$ * 1) 2,2'-Dinitrodiphenyldisulfid. Sm. 195° (*J. pr.* [2] 66, 553 *C.* 1903 [1] 508).
- * 3) 4,4'-Dinitrodiphenyldisulfid. Sm. 181° (*J. pr.* [2] 66, 551 *C.* 1903 [1] 508).
- $C_{12}H_8O_4N_3Cl$ 2) 2'-Chlor-2,4-Dinitrodiphenylamin. Sm. 148—149° (*B.* 36, 32 *C.* 1903 [1] 520).
- 3) 3'-Chlor-2,4-Dinitrodiphenylamin. Sm. 182—183° (*B.* 36, 33 *C.* 1903 [1] 520).
- 4) 4'-Chlor-2,4-Dinitrodiphenylamin. Sm. 165° (*B.* 36, 33 *C.* 1903 [1] 520).
- $C_{12}H_8O_4N_3Br$ 4) 4-Brom-2,5-Dinitrodiphenylamin. Sm. 153—154° (*Am.* 28, 463 *C.* 1903 [1] 323).
- $C_{12}H_8O_4Cl_2S_3$ * 1) Chlorid d. Diphenylsulfid-4,4'-Disulfonsäure. Sm. 159° (*R.* 22, 351 *C.* 1904 [1] 22; *R.* 22, 357 *C.* 1904 [1] 22).
- 2) Chlorid d. Diphenylsulfid-2,2'-Disulfonsäure. Sm. 94—95° (95 bis 96°) (*R.* 22, 352 *C.* 1904 [1] 22; *R.* 22, 365 *C.* 1904 [1] 23).
- $C_{12}H_8O_5N_3Cl$ * 3) 3-Chlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 183° (*B.* 36, 3267 *C.* 1903 [2] 1126; *B.* 37, 1517 *C.* 1904 [1] 1596).
- 5) 2-Chlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 189° (*B.* 36, 3266 *C.* 1903 [2] 1126; *B.* 37, 1516 *C.* 1904 [1] 1596).
- 6) 3-Chlor-2',4'-Dinitro-4-Amidodiphenyläther. Sm. 137° (*B.* 37, 1517 *C.* 1904 [1] 1596).
- $C_{12}H_8O_5N_3Br$ 1) 2-Brom-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 178—179° (*B.* 36, 3269 *C.* 1903 [2] 1126).
- $C_{12}H_8O_6Cl_2S_3$ 2) Chlorid d. Diphenylsulfon-2,2'-Disulfonsäure. Sm. 147—148° (*R.* 22, 352 *C.* 1904 [1] 22; *R.* 22, 365 *C.* 1904 [1] 23).
- 3) Chlorid d. Diphenylsulfon-4,4'-Disulfonsäure. Sm. 217—220° u. Zers. (*R.* 22, 351 *C.* 1904 [1] 22; *R.* 22, 363 *C.* 1904 [1] 23).
- $C_{12}H_8O_{10}N_4S_2$ * 1) 2,2'-Dinitroazobenzol-4,4'-Disulfonsäure + 2H₂O. Na₂ + 2H₂O, Ba + 2H₂O, Ag₂ + 2H₂O (*A.* 330, 16 *C.* 1904 [1] 1140).
- $C_{12}H_8ClBr_2J$ 1) Di[3-Bromphenyl]jodoniumchlorid. Sm. 207°. 2 + PtCl₄ (*J. pr.* [2] 69, 326 *C.* 1904 [2] 35).
- $C_{12}H_8Cl_2BrJ$ 2) Di[3-Chlorphenyl]jodoniumbromid. Sm. 155° (*B.* 37, 1315 *C.* 1904 [1] 1341).
- $C_{12}H_8ONS_2$ 2) 2-Thiocarbonyl-4-Keto-5-Cinnamylidentetrahydrothiazol. Sm. 208—211° u. Zers. (*M.* 23, 967 *C.* 1903 [1] 284).
- $C_{12}H_8ON_2Br$ * 2) 3-Brom-4'-Oxyazobenzol. Sm. 139—140° (*B.* 36, 3867 *C.* 1904 [1] 92).
- 3) 4-Jodosoazobenzol. Sm. 105° (*B.* 37, 1312 *C.* 1904 [1] 1341).
- $C_{12}H_8ON_3J$ 2) Di[3-Chlorphenyl]jodoniumhydroxyd. Salze siehe (*B.* 37, 1315 *C.* 1904 [1] 1341).
- $C_{12}H_8OCl_2J$ 1) Di[3-Bromphenyl]jodoniumhydroxyd. Salze siehe (*J. pr.* [2] 69, 326 *C.* 1904 [2] 35).
- $C_{12}H_8OBr_2J$ 1) Di[3-Bromphenyl]jodoniumhydroxyd. Salze siehe (*J. pr.* [2] 69, 326 *C.* 1904 [2] 35).
- $C_{12}H_8O_2NS$ 4) 2,4-Diketo-5-Cinnamylidentetrahydrothiazol. Sm. 214—216° (*M.* 23, 971 *C.* 1903 [1] 284).

- $C_{12}H_9O_2N_2Cl$ 3) 4-Chlor-2-Nitrodiphenylamin. Sm. 61° (*A.* 332, 93 *C.* 1904 [1] 1571).
- $C_{12}H_9O_3N_2J$ 2) 4-Jodoazobenzol. Zers. bei 189° (*B.* 37, 1313 *C.* 1904 [1] 1341).
- $C_{12}H_9O_3NS_2$ 1) 2-Thiocarbonyl-4-Keto-5-[2-Acetoxybenzyliden]tetrahydrothiazol. Sm. 168° (*M.* 23, 962 *C.* 1903 [1] 284).
- 2) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Methyltetrahydrothiazol. Sm. 204° (*M.* 25, 172 *C.* 1904 [1] 895).
- $C_{12}H_9O_4NS$ 5) 2,4-Diketo-5-[2-Acetoxybenzyliden]tetrahydrothiazol. Sm. 171° (*M.* 23, 966 *C.* 1903 [1] 284).
- $C_{12}H_9O_6NS$ *1) 2-Nitro-1-Oxybenzophenyläther-4-Sulfonsäure (*D.R.P.* 156156 *C.* 1904 [2] 1674).
- $C_{12}H_9O_7N_3S$ *2) 2,4-Dinitrodiphenylamin-4'-Sulfonsäure (*D.R.P.* 152406 *C.* 1904 [2] 273).
- $C_{12}H_9O_8N_3S$ 2) 2',4'-Dinitro-4-Oxydiphenylamin-2-Sulfonsäure (*D.R.P.* 143494 *C.* 1903 [2] 405).
- $C_{12}H_9N_2Cl_2J$ 1) Azobenzol-4-Jodidchlorid. Sm. 100° u. Zers. (*B.* 37, 1311 *C.* 1904 [1] 1341).
- $C_{12}H_9ClBrJ$ 1) 3-Chlordiphenyljodoniumbromid. Sm. 164° (*B.* 37, 1316 *C.* 1904 [1] 1341).
- 2) 3-Bromdiphenyljodoniumchlorid. Sm. 191°. + $HgCl_2$, 2 + $PtCl_4$ (*J. pr.* [2] 69, 327 *C.* 1904 [2] 35).
- $C_{12}H_{10}ONCl$ 6) Pyridin + Benzoylchlorid (*C. r.* 136, 1555 *C.* 1903 [2] 359).
- 7) 1-Naphtylchloramid d. Essigsäure. Sm. 75° (*Ann.* 29, 308 *C.* 1903 [1] 1166).
- 8) 2-Naphtylamid d. Chloressigsäure. Sm. 117—118° (*C.* 1903 [2] 110).
- $C_{12}H_{10}ONBr_3$ 1) 3,5-Dibrom-4-Oxy-1-Brommethylbenzol + Pyridin. Sm. 186 bis 190° u. Zers. (*B.* 36, 1884 *C.* 1903 [2] 291).
- $C_{12}H_{10}ONP$ 2) Anhydrid d. Diphenylamidophosphinsäure + H_2O . Sm. 224° (*A.* 326, 222 *C.* 1903 [1] 866).
- $C_{12}H_{10}ON_2Br_2$ 1) Azoxybenzoldibromid (*B.* 36, 4140 *C.* 1904 [1] 185).
- $C_{12}H_{10}ON_2S$ 3) 2-Imido-4-Keto-5-Cinnamylidentetrahydrothiazol. Zers. bei 235° (*M.* 23, 971 *C.* 1903 [1] 284).
- $C_{12}H_{10}ON_3Cl$ 1) 3,9-Diamidophenoxazoniumchlorid + H_2O . 2 + $PtCl_4$ (*B.* 36, 479 *C.* 1903 [1] 651).
- $C_{12}H_{10}OClJ$ 1) 3-Chlordiphenyljodoniumhydroxyd. Salze siehe (*B.* 37, 1316 *C.* 1904 [1] 1341).
- $C_{12}H_{10}OBrJ$ 1) 3-Bromdiphenyljodoniumhydroxyd. Salze siehe (*J. pr.* [2] 69, 327 *C.* 1904 [2] 35).
- $C_{12}H_{10}O_3N_2S$ 2) 2-Imido-4-Keto-5-[2-Acetoxybenzyliden]tetrahydrothiazol. Sm. 223—228° u. Zers. (*M.* 23, 964 *C.* 1903 [1] 284).
- $C_{12}H_{10}O_3N_2S_2$ 2) 2-Thiocarbonyl-4-Keto-5-[3-Nitrobenzyliden]-3-Aethyltetrahydrothiazol. Sm. 188° (*M.* 25, 176 *C.* 1904 [1] 895).
- $C_{12}H_{10}O_4N_2S$ *6) 4-Oxyazobenzol-4'-Sulfonsäure (*C.* 1903 [1] 325).
- *9) Phenylamid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 126° (*Soc.* 85, 1187 *C.* 1904 [2] 1115).
- $C_{12}H_{10}O_6N_2S_2$ 13) 2-Oxyazobenzol-5-Sulfonsäure. Na (*B.* 36, 2978 *C.* 1903 [2] 1031).
- *4) Azobenzol-4,4'-Disulfonsäure. Na_2 , K_2 + $2\frac{1}{2}H_2O$ (*J. pr.* [2] 66, 554 *C.* 1903 [1] 508; *A.* 330, 21 *C.* 1904 [1] 1139).
- $C_{12}H_{10}O_7N_4S$ 2) 2',4'-Dinitro-4-Amidodiphenylamin-2-oder-3-Sulfonsäure (*D.R.P.* 147862 *C.* 1904 [1] 235).
- $C_{12}H_{11}ONS$ 5) 4-Amidodiphenylsulfoxyd. Sm. 152° (*B.* 36, 113 *C.* 1903 [1] 454).
- $C_{12}H_{11}ONS_2$ 2) 2-Thiocarbonyl-4-Keto-5-Benzyliden-3-Aethyltetrahydrothiazol. Sm. 149° (*M.* 25, 174 *C.* 1904 [1] 895).
- $C_{12}H_{11}ON_2P$ 2) Phenylimid-Phenylamid d. Phosphorsäure. Sm. 225—226° (*Soc.* 83, 1048 *C.* 1903 [2] 663).
- $C_{12}H_{11}ON_4Cl$ 1) 3,7,9-Triamidophenoxazoniumchlorid (*B.* 36, 483 *C.* 1903 [1] 652).
- $C_{12}H_{11}O_2NBr_2$ 6) Phenylimid d. $\alpha\beta$ -Dibrombutan- $\alpha\beta$ -Dicarbonsäure. Sm. 164—165° (*B.* 37, 2383 *C.* 1904 [2] 306).
- $C_{12}H_{11}O_2NS$ *3) Phenylamid d. Benzolsulfonsäure. Sm. 108,5—109° (*B.* 36, 2706 *C.* 1903 [2] 829).
- $C_{12}H_{11}O_2NS_2$ 2) 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden]-3-Aethyltetrahydrothiazol. Sm. 190° (*M.* 25, 174 *C.* 1904 [1] 895).

- $C_{12}H_{11}O_2NS_2$ 3) Methyläther d. 2-Thiocarbonyl-4-Keto-5-[4-Oxybenzyliden]-3-Methyltetrahydrothiazol. Sm. 181° (*M.* 25, 170 *C.* 1904 [1] 895).
- $C_{12}H_{11}O_8NS_2$ 1) 5'-Methyläther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Methyltetrahydrothiazol. Sm. 199° (*M.* 25, 171 *C.* 1904 [1] 895).
- $C_{12}H_{11}O_4NS$ 6) 2-Amidodiphenyläther-4-Sulfonsäure (D.R.P. 156156 *C.* 1904 [2] 1674).
- $C_{12}H_{11}O_5NS_2$ *1) Oxyimid d. Benzolsulfonsäure (*G.* 33 [2] 310 *C.* 1904 [1] 288).
- $C_{12}H_{11}O_6N_2S$ 1) 4'-Nitro-2'-Amido-4-Oxydiphenylamin-3-Sulfonsäure (D.R.P. 139679 *C.* 1903 [1] 748).
- $C_{12}H_{11}O_6N_2S_2$ *1) Diazoamidobenzol-4,4'-Disulfonsäure. Ba (*Bl.* [3] 31, 642 *C.* 1904 [2] 96).
- 4) Diazoamidobenzol-2,2'-Disulfonsäure (*Bl.* [3] 31, 642 *C.* 1904 [2] 96).
- 5) Diazoamidobenzol-3,3'-Disulfonsäure (*Bl.* [3] 31, 642 *C.* 1904 [2] 96).
- $C_{12}H_{12}ONCl$ 5) Methyläther d. 1-Chlor-4-Oxy-3-Aethylisochinolin. Sm. 55,5° (*B.* 37, 1693 *C.* 1904 [1] 1525).
- $C_{12}H_{12}ONBr$ 3) 4-Methyläther d. Brom-4-Oxyphenylat d. Pyridin. + $FeCl_3$ (*J. pr.* [2] 70, 49 *C.* 1904 [2] 1236).
- $C_{12}H_{12}ON_2Br_2$ 1) 6,8-Dibrom-4-Keto-2-Isobutyl-3,4-Dihydro-1,3-Benzodiazin. Sm. 230—231,5° (*C.* 1903 [2] 1195).
- $C_{12}H_{12}ON_5Cl$ 1) 3,5,7,9-Tetraamidophenoxazoniumchlorid (*B.* 36, 481 *C.* 1903 [1] 651).
- $C_{12}H_{12}O_2NCl_3$ 2) 2,4,6-Trichlorphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 75°; Sd. 227°₂₅ (*Bl.* [3] 29, 752 *C.* 1903 [2] 629).
- $C_{12}H_{12}O_2NBr$ 5) Äthyläther d. 5-Brom-6-Oxy-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 136—137° (*B.* 36, 461 *C.* 1903 [1] 590).
- $C_{12}H_{12}O_2NBr_3$ 1) 2,4,6-Tribromphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 60—61°; Sd. 218°₄₀ (*Bl.* [3] 29, 753 *C.* 1903 [2] 629).
- $C_{12}H_{12}O_2NJ$ *1) Jodäthylat d. Chinolin-4-Carbonsäure. Sm. 200—203° (*M.* 24, 201 *C.* 1903 [2] 48).
- $C_{12}H_{12}O_2N_2S$ 7) Verbindung (aus Dicyanbenzoylaceton). Sm. 182° u. Zers. (*A.* 332, 158 *C.* 1904 [2] 192).
- $C_{12}H_{12}O_3NP$ 3) Phenylmonamid d. Phosphorsäuremonophenylester. Sm. 134°. Ag (*A.* 326, 225 *C.* 1903 [1] 866).
- $C_{12}H_{12}O_3N_2S_2$ 1) 1,3-Di[Thioureido]naphtalin-6-Sulfonsäure (D.R.P. 139429 *C.* 1903 [1] 904).
- $C_{12}H_{12}O_3ClBr_3$ 1) α -Acetat d. 2,5-Dibrom-3,4-Dioxy-1-[α -Chlor- β -Brompropyl]-benzol-3-Methyläther. Sm. 97—98° (*A.* 329, 30 *C.* 1903 [2] 1436).
- $C_{12}H_{12}O_4NCl_3$ 3) Diäthylester d. 2,3,5-Trichlorpyridin-4-Malonsäure. Sm. 63 bis 64°. K (*Soc.* 83, 398 *C.* 1903 [1] 840, 1141).
- $C_{12}H_{12}O_4N_2S_2$ 1) Amid d. Diphenylsulfid-4,4'-Disulfonsäure. Sm. 195° (*R.* 22, 359 *C.* 1904 [1] 23).
- $C_{12}H_{12}O_6N_2S_2$ *1) 4,4'-Diamidobiphenyl-2,2'-Disulfonsäure (*J. pr.* [2] 66, 560 *C.* 1903 [1] 518).
- *3) s-Diphenylhydrazin-3,3'-Disulfonsäure (*J. pr.* [2] 66, 559 *C.* 1903 [1] 518).
- *5) s-Diphenylhydrazin-4,4'-Disulfonsäure. K_2 (*J. pr.* [2] 66, 555 *C.* 1903 [1] 508).
- $C_{12}H_{12}O_6N_4S_2$ 2) 2,2'-Diamidoazobenzol-4,4'-Disulfonsäure + $2H_2O$. Ag_2 (*A.* 330, 19 *C.* 1904 [1] 1139).
- $C_{12}H_{13}ONBr_2$ 2) 8, β -Dibrom-5-Acetylamido-1,2,3,4-Tetrahydronaphtalin. Sm. 198—199° (*Soc.* 85, 746 *C.* 1904 [2] 447).
- $C_{12}H_{13}ON_2Cl_3$ 1) β -Trichlorphenylamid d. Hexahydropyridin-1-Carbonsäure. Subl. bei 275—280° (*Bl.* [3] 31, 23 *C.* 1904 [1] 521).
- $C_{12}H_{13}ON_2Br_3$ 1) β -Tribromphenylamid d. Hexahydropyridin-1-Carbonsäure. Subl. bei 260° (*Bl.* [3] 31, 23 *C.* 1904 [1] 521).
- $C_{12}H_{13}ON_3S$ 1) 5-Merkapto-3-Keto-4-Allyl-1-Benzyltetrahydro-1,2,4-Triazol. Sm. 161° (*B.* 37, 2335 *C.* 1904 [2] 315).
- 2) 5-Merkapto-4'-Allyl-1-Benzyltetrahydro-1,2,4-Triazol-3,5-Oxyd. Sm. 108° (*B.* 37, 2335 *C.* 1904 [2] 314).
- $C_{12}H_{13}O_2N_2Cl$ 1) Laktone d. δ -Oxy- α -[4-Methylphenyl]hydrazon- γ -Oxyvaleriansäure. Sm. 210° (*C. r.* 137, 15 *C.* 1903 [2] 508).

- $C_{12}H_{13}O_3NS$ 11) 1-Aethylamidonaphtalin-2-Sulfonsäure. Sm. 207—208°. K (R. 23, 185 C. 1904 [2] 228).
- $C_{12}H_{13}O_3N_2Br$ 3) Aethyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydrochinolin. Sm. 111° u. Zers. (J. pr. [2] 39, 309; [2] 45, 185). — IV, 265.
- $C_{12}H_{13}O_3ClBr_2$ 1) 4-Acetat d. 5-Brom-3,4-Dioxy-1-[α -Chlor- β -Brompropyl]benzol-3-Methyläther. Sm. 111—112° (A. 329, 21 C. 1903 [2] 1435).
- $C_{12}H_{13}O_4N_2Br$ 1) 4-Nitrobenzoat d. β -Brom- γ -Oximido- β -Methylbutan. Sm. 105° (B. 37, 540 C. 1904 [1] 865).
- $C_{12}H_{13}O_5N_2Br$ 2) Acetylderivat d. Verb. $C_{10}H_{11}O_4N_2Br$. Sm. 242° (B. 31, 926). — *II, 1121.
- $C_{12}H_{13}O_5ClS_2$ 1) Aethylester d. α -[4-Chlorphenylthiosulfon]acetessigsäure. Sm. 56—57° (J. pr. [2] 70, 387 C. 1904 [2] 1720).
- $C_{12}H_{13}O_5BrS$ 1) α - γ -Sulton d. β -Brom- α -Oxy- α -Phenylbutan- γ -Sulfonsäure- δ -Carbonsäuremethylester. Sm. 148° (Am. 31, 255 C. 1904 [1] 1081).
- $C_{12}H_{13}O_5BrS_2$ 1) Aethylester d. α -[4-Bromphenylthiosulfon]acetessigsäure. Sm. 70—71° (J. pr. [2] 70, 388 C. 1904 [2] 1720).
- $C_{12}H_{13}O_5JS_2$ 1) Aethylester d. α -[4-Jodphenylthiosulfon]acetessigsäure. Sm. 90 bis 91° (J. pr. [2] 70, 389 C. 1904 [2] 1720).
- $C_{12}H_{14}ONBr$ *5) 8-Brom-5-Aethylamido-1,2,3,4-Tetrahydronaphtalin. Sm. 180 bis 181° (Soc. 85, 745 C. 1904 [2] 447).
- 6) 5-Brom-6-Acetylamido-1,2,3,4-Tetrahydronaphtalin. Sm. 125,5° (Soc. 85, 730 C. 1904 [2] 116, 338).
- 7) 8-Brom-6-Acetylamido-1,2,3,4-Tetrahydronaphtalin. Sm. 151° (Soc. 85, 730 C. 1904 [2] 116, 338).
- $C_{12}H_{14}ONJ$ 6) Jodäthylat d. 6-Oxychinolin-6-Methyläther + H_2O . Sm. 179° wasserfrei (B. 36, 1175 C. 1903 [1] 1364).
- $C_{12}H_{14}ON_2Cl_2$ *1) Verbindung (aus S-Dichlormethyläther + 2 Molec. Pyridin). + $PtCl_4$, + $2AuCl_3$ (A. 330, 116 C. 1904 [1] 1063; A. 334, 35 C. 1904 [2] 948).
- $C_{12}H_{14}O_2NCl$ 8) Aethyl-4-Propionylehloramidophenylketon. Sm. 80° (C. 1903 [1] 1223).
- $C_{12}H_{14}O_2NBr$ 5) Aethyl-4-Propionylbromamidophenylketon. Sm. 120° (C. 1903 [1] 1223).
- 6) Brommethylat d. 6-Dimethylamido-1,2-Benzpyron. Sm. 229° (Soc. 85, 1237 C. 1904 [2] 1124).
- 7) 2-Bromphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 63° (Bl. [3] 29, 752 C. 1903 [2] 629).
- 8) 4-Bromphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 66—67°; Sd. 245°₅₂ (Bl. [3] 29, 753 C. 1903 [2] 629).
- 9) Benzoat d. β -Brom- γ -Oximido- β -Methylbutan. Sm. 70—71° (B. 37, 540 C. 1904 [1] 865).
- $C_{12}H_{14}O_2NJ$ 3) Jodmethylat d. 6-Dimethylamido-1,2-Benzpyron. Sm. 202 bis 207° u. Zers. (Soc. 85, 1237 C. 1904 [2] 1124).
- $C_{12}H_{14}O_2N_2S$ 1) 5-Aethylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 61—62° (A. 331, 235 C. 1904 [1] 1221).
- 2) 5-Methylsulfon-3,4-Dimethyl-1-Phenylpyrazol. Sm. 137° (A. 331, 242 C. 1904 [1] 1221).
- $C_{12}H_{14}O_2N_4S$ 1) α -[3-Nitrobenzyliden]amido- α -Methyl- β -Allylthioharnstoff. Sm. 132° (B. 37, 2321 C. 1904 [2] 311).
- 2) 1-Ureido-2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Phenyltetrahydroimidazol. Sm. 191° u. Zers. (C. 1904 [2] 1027).
- $C_{12}H_{14}O_3NCl$ 3) 4-Chlorphenylmonamid d. Propan- $\beta\beta$ -Dicarbonsäuremonomethylester. Sm. 90—91° (Soc. 83, 1247 C. 1903 [2] 1421).
- $C_{12}H_{14}O_3NBr$ 7) α -[α -Brompropionyl]amido- β -Phenylpropionsäure. Sm. 132—133° (B. 37, 3312 C. 1904 [2] 1306).
- $C_{12}H_{14}O_3N_2S$ 2) Methylthiopyrintrioxyd. Sm. 305° u. Zers. (A. 331, 219 C. 1904 [1] 1219).
- 3) Aethylthiopyrintrioxyd. Sm. 257° u. Zers. (A. 331, 210 C. 1904 [1] 1219).
- $C_{12}H_{14}O_4NBr$ *3) Aldehyd d. 6-Brom-3,4,5-Trioxy-1-[β -Methylamidoäthyl]benzol-3-Methyläther-4,5-Methylenäther-2-Carbonsäure (Bromcetarin). Sm. 135° (B. 36, 1534 C. 1903 [2] 52).

- $C_{12}H_{14}O_4Cl_2S_2$ 1) 1,3-Di[$\beta\gamma$ -Dichlorpropylsulfon]benzol (*J. pr.* [2] 68, 322 *C.* 1903 [2] 1170).
- $C_{12}H_{14}O_4Br_2S_2$ 1) 1,3-Di[$\beta\gamma$ -Dibrompropylsulfon]benzol. Fl. (*J. pr.* [2] 68, 323 *C.* 1903 [2] 1171).
- $C_{12}H_{14}O_6N_2S_2$ 3) 2,2'-Diamido-s-Diphenylhydrazin-4,4'-Disulfonsäure. $Na_2 + 2H_2O$ (*A.* 330, 22 *C.* 1904 [1] 1139).
- $C_{12}H_{14}O_6N_2S$ 1) β -[5-Nitro-2-Methylphenylsulfon]amidopropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 158—159°. Ba (*H.* 43, 70 *C.* 1904 [2] 1607).
- $C_{12}H_{14}N_2ClJ$ 4) Jodmethylat d. 5-Chlor-3-Methyl-1-[2-Methylphenyl]pyrazol. Sm. 231—232° (*B.* 37, 2229 *C.* 1904 [2] 228).
- $C_{12}H_{14}N_2Cl_3S$ 1) Methylthiopyridindichlorid (*A.* 331, 220 *C.* 1904 [1] 1219).
- $C_{12}H_{14}N_2Cl_2Hg$ 1) Verbindung (aus Quecksilberacetamid u. salzs. Anilin) (*M.* 23, 1158 *C.* 1903 [1] 385).
- $C_{12}H_{14}N_4Br_2S$ 1) Methylthiopyridindibromid. Sm. 111° (*A.* 331, 221 *C.* 1904 [1] 1219).
- $C_{12}H_{15}ON_2Cl$ 4) Methylhydroxyd d. 5-Chlor-3-Methyl-1-[2-Methylphenyl]pyrazol. Salze siehe (*B.* 37, 2229 *C.* 1904 [2] 228).
- $C_{12}H_{15}O_2N_2Br$ 5) 3-Chlorphenylamid d. Hexahydropyridin-1-Carbonsäure. Sm. 149,5° (*Bl.* [3] 31, 22 *C.* 1904 [1] 521).
- 6) 4-Chlorphenylamid d. Hexahydropyridin-1-Carbonsäure. Sm. 173—174° (*Bl.* [3] 31, 22 *C.* 1904 [1] 521).
- 1) Brommethylcytisin. ($2HCl$, $PtCl_2$), (HCl , $AuCl_3$), HJ (*Ar.* 235, 384). — *III, 654.
- 2) 3-Bromphenylamid d. Hexahydropyridin-1-Carbonsäure. Sm. 157° (*Bl.* [3] 31, 22 *C.* 1904 [1] 521).
- 3) 4-Bromphenylamid d. Hexahydropyridin-1-Carbonsäure. Sm. 188° (*Bl.* [3] 31, 23 *C.* 1904 [1] 521).
- $C_{12}H_{15}O_2N_2Br$ 3) Phenylamidoformiat d. β -Brom- γ -Oximido- β -Methylbutan. Sm. 88—89° (*B.* 37, 541 *C.* 1904 [1] 865).
- $C_{12}H_{15}O_3N_2Br$ 2) 4-Bromphenylmonohydrazid d. Propan- $\beta\beta$ -Dicarbonsäuremonomethylester. Sm. 96° (*Soc.* 83, 1252 *C.* 1903 [2] 1422).
- $C_{12}H_{15}O_4NS$ 1) Acetyl-4-Aethoxyphenylamid d. Aethensulfonsäure. Sm. 70° (*B.* 36, 3631 *C.* 1903 [2] 1327).
- $C_{12}H_{15}O_6N_2Cl$ 1) 4-Chlorbenzoylhydrazon d. l-Arabinose. Zers. bei 203° (*C.* 1904 [2] 1493).
- $C_{12}H_{15}O_6N_2Br$ 4) 4-Brombenzoylhydrazon d. l-Arabinose. Zers. bei 215—216° (*C.* 1904 [2] 1493).
- 5) 4-Brombenzoylhydrazon d. d-Xylose. Zers. bei 258—260° (*C.* 1904 [2] 1493).
- $C_{12}H_{15}O_6N_2Cl$ 1) Triäthyläther d. 6-Chlor-2,4-Dinitro-1,3,5-Trioxybenzol. Sm. 76° (*B.* 35, 3856 *C.* 1903 [1] 21; *Am.* 31, 377 *C.* 1904 [1] 1408).
- $C_{12}H_{16}ONCl$ 3) ϵ -Chlor- α -Benzoylamidopentan. Sm. 66° (*B.* 37, 2916 *C.* 1904 [2] 1237).
- 4) Nitrosochlorid d. δ -Phenyl- β -Methyl- β -Penten. Sm. 140° (*B.* 37, 2307 *C.* 1904 [2] 215).
- 5) Nitrosochlorid d. α -Phenyl- γ -Methyl- β -Penten. Sm. 140—141° u. Zers. (*B.* 37, 2317 *C.* 1904 [2] 217).
- 6) Nitrosochlorid d. α -Phenyl- β -Äthyl- α -Buten. Sm. 99° (*B.* 37, 1724 *C.* 1904 [1] 1515).
- $C_{12}H_{16}ON_3Br$ 1) β -Brom- α -Semicarbazon- α -[4-Methylphenyl]butan. Sm. 232° (*C. r.* 133, 1218 *C.* 1902 [1] 299). — *III, 124.
- $C_{12}H_{16}O_4NBr$ *1) Acetat d. π -Brom- α -Isonitrosocampher. Sm. 171° (*Soc.* 83, 967 *C.* 1903 [1] 1411 *C.* 1903 [2] 666).
- 3) Acetat d. β -Bromcamphoryloxim. Sm. 112° (*Soc.* 83, 967 *C.* 1903 [1] 1411 *C.* 1903 [2] 666).
- $C_{12}H_{16}O_4Br_2S_2$ 1) 1,3-Di[β - oder γ -Brompropylsulfon]benzol. Sm. 74° (*J. pr.* [2] 68, 323 *C.* 1903 [2] 1171).
- $C_{12}H_{16}O_6N_2S_2$ 1) 1,3-Di[β -Oxidopropylsulfon]benzol. Sm. 198—199° (*J. pr.* [2] 68, 325 *C.* 1903 [2] 1171).
- $C_{12}H_{17}ON_3S_2$ 1) Dimethyläther d. α -Dimerkaptomethylenamido- β -Äthyl- α -Phenylharnstoff. Sm. 106° (*B.* 36, 1376 *C.* 1903 [1] 1344).
- $C_{12}H_{17}O_4NS$ *3) r- α -Phenylsulfonamido- γ -Methylvaleriansäure. Sm. 145—146° (*Bl.* [3] 31, 1182 *C.* 1904 [2] 1710).
- 5) Phenylsulfon-d-Isoleucin. Sm. 149—150° (*B.* 37, 1828 *C.* 1904 [1] 1645).

- $C_{12}H_{17}O_4N_2Br$ 2) 4-Bromphenylhydrazon d. Rhamnose. Sm. 167° u. Zers. (*Soc.* 83, 1288 *C.* 1904 [1] 86).
- $C_{12}H_{18}O_2NCl_3$ 1) Chloralcampherxim + 2H₂O. Sm. 82° u. Zers. (D.R.P. 66879; *Am.* 21, 474). — *III, 366.
- $C_{12}H_{18}O_7N_2S$ *1) Phenylsulfonylhydrazon d. d-Glykose (*C.* 1904 [2] 1494).
- $C_{12}H_{19}O_2N_2Cl$ 2) Chlormethylat d. Isopilocarpin. 2 + PtCl₄ (*Soc.* 77, 853). — *III, 685.
- $C_{12}H_{19}O_3NS$ 2) Methylamid d. γ -Oxy- γ -Phenylpentan- γ^2 -Sulfonsäure. Sm. 111 bis 112° (*B.* 37, 3265 *C.* 1904 [2] 1031).
- $C_{12}H_{19}O_3N_2S$ 1) 2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Allyltetrahydroimidazol-1- α -Amidoisobuttersäure. Sm. 121° (*C.* 1904 [2] 1028).
- $C_{12}H_{19}O_5BrS$ 1) Aethylester d. Bromdihydrocampholensulfocarbonsäure. Sm. 100—101° (*C.* 1903 [2] 38; *Soc.* 83, 1111 *C.* 1903 [2] 794).
- $C_{12}H_{20}O_3NP$ 1) 2, 4-Dimethylphenylmonamid d. Phosphorsäurediäthylester. Sm. 96° (*A.* 326, 240 *C.* 1903 [1] 868).
- $C_{12}H_{21}O_4N_2Br$ 1) Aethylester d. α -Bromisocapronylamidoacetylamidoessigsäure. Sm. 124—125° (123—124°) (*B.* 36, 2988 *C.* 1903 [2] 1112; *B.* 37, 3071 *C.* 1904 [2] 1208).
- $C_{12}H_{22}O_3NBr$ 1) α -[α -Bromisocapronyl]amidoisocaprinsäure. Sm. 188—189° (*B.* 37, 2492 *C.* 1904 [2] 424).
- $C_{12}H_{22}O_4NJ$ 4) Jodmethylat d. 1-Methyltetrahydropyrrol-2, 2-Dicarbonsäure. Sm. 98° (*A.* 326, 127 *C.* 1903 [1] 844).
- $C_{12}H_{25}ON_2J$ 1) Jodmethylat d. ϵ -Dimethylamido- $\beta\epsilon$ -Dimethyl- γ -Hexen- γ -Carbonsäureamid. Sm. 184° (*B.* 36, 3363 *C.* 1903 [2] 1186).
- $C_{12}H_{25}ON_2P$ 1) Aethyläther d. Di[1-Piperidyl]oxyphosphin. Sd. 152—154°₃₇ (*A.* 326, 166 *C.* 1903 [1] 762).
- $C_{12}H_{25}O_2N_2P$ 1) Dipiperidid d. Phosphorsäuremonoäthylester. Sd. 176—180°₃₀ (*A.* 326, 166 *C.* 1903 [1] 762; *A.* 326, 196 *C.* 1903 [1] 820).
- $C_{12}H_{26}ONCl$ 2) Chlormethylat d. 3, 4, 4, 6-Tetramethyl-2-Isopropyltetrahydro-1, 3-Oxazin. + AuCl₃ (*M.* 25, 858 *C.* 1904 [2] 1241).
- $C_{12}H_{26}O_2N_2J_2$ 1) Di[Jodmethylat] d. Aethylenbismorpholin. Zers. bei 262° (*B.* 35, 4473 *C.* 1903 [1] 404).
- $C_{12}H_{26}N_3SP$ 1) Aethylmonamid-1, 1-Dipiperidid d. Thiophosphorsäure. Sm. 95° (*A.* 326, 203 *C.* 1903 [1] 821).
- $C_{12}H_{27}O_3NS$ 1) α -Isoamylamidoheptan- α -Sulfonsäure. Na (*C.* 1904 [2] 945).
- $C_{12}H_{28}O_3NP$ 1) Diisobutylmonamid d. Phosphorsäurediäthylester. Fl. (*A.* 326, 186 *C.* 1903 [1] 820).
- $C_{12}H_{30}ON_3P$ 1) Tri[Diäthylamid] d. Phosphorsäure. Fl. (*A.* 326, 200 *C.* 1903 [1] 821).
- $C_{12}H_{30}O_6N_3P_3$ 2) Tri[Isobutylamid] d. Phosphorsäure. Sm. 46—47° (*A.* 326, 177 *C.* 1903 [1] 819).
- $C_{12}H_{30}O_6N_3P_3$ 1) trim. Phosphinodiäthylamin. Sm. 103° (*A.* 326, 190 *C.* 1903 [1] 820).
- $C_{12}H_{30}N_3SP$ 1) Tri[Diäthylamid] d. Thiophosphorsäure. Fl. (*A.* 326, 218 *C.* 1903 [1] 822).
- $C_{12}H_{30}N_3SP$ 2) Tri[Isobutylamid] d. Thiophosphorsäure. Sm. 78, 5° (*A.* 326, 208 *C.* 1903 [1] 821).

— 12 V —

- $C_{12}H_4O_4N_2Cl_2S_2$ 1) Di[4, 5-Dichlor-2-Nitrophenyl]disulfid. Sm. 233° u. Zers. (*R.* 21, 422 *C.* 1903 [1] 504).
- $C_{12}H_6O_4N_2Br_2S_2$ 2) Di[5-Brom-2-Nitrophenyl]disulfid. Sm. 184° (*R.* 21, 422 *C.* 1903 [1] 504).
- $C_{12}H_6O_6N_2Br_2S_2$ *1) 2, 4, 2', 4'-Tetrabromazobenzol-5, 5'-Disulfonsäure. Na₂ + 4H₂O (*A.* 330, 24 *C.* 1904 [1] 1140).
- *2) 2, 6, 2', 6'-Tetrabromazobenzol-4, 4'-Disulfonsäure. Na₂ + 2H₂O (*A.* 330, 38 *C.* 1904 [1] 1141).
- $C_{12}H_9O_2NCl_3S$ 1) 2, 4-Dichlorphenylethylamid d. Benzolsulfonsäure. Sm. 89° (*Soc.* 85, 1185 *C.* 1904 [2] 1115).
- $C_{12}H_9O_2NCl_3S$ 1) 2, 4-Dichlorphenylamid d. Benzolsulfonsäure. Sm. 128° (*Soc.* 85, 1185 *C.* 1904 [2] 1115).
- 2) 4-Chlorphenylethylamid d. Benzolsulfonsäure. Sm. 97° (*Soc.* 85, 1184 *C.* 1904 [2] 1115).

- $C_{12}H_9O_4N_2ClS$ 2) Phenylchloramid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 106° (*Soc.* 85, 1187 *C.* 1904 [2] 1115).
- $C_{12}H_{10}O_2NClS$ *3) 2-Chlorphenylamid d. Benzolsulfonsäure. Sm. 127° (*B.* 37, 2811 *C.* 1904 [2] 593).
- 5) Phenylchloramid d. Benzolsulfonsäure. Sm. 61° (*Soc.* 85, 1183 *C.* 1904 [2] 1115).
- $C_{12}H_{10}O_2NJS$ 1) Phenylamid d. 4-Jodbenzol-1-Sulfonsäure. Sm. 143° (*A.* 332, 58 *C.* 1904 [2] 41).
- $C_{12}H_{11}O_2NClP$ 1) Phenylmonamid d. Phenylphosphorsäuremonoäthylester. Sm. 137° (*A.* 326, 224 *C.* 1903 [1] 866).
- $C_{12}H_{11}O_3NBrP$ 1) 4-Bromphenylmonamid d. Phosphorsäuremonophenylester. Sm. 164° (*A.* 326, 232 *C.* 1903 [1] 867).
- $C_{12}H_{12}ON_2ClP$ *1) Di[Phenylamid] d. Phosphorsäuremonoäthylester. Sm. 174° (*A.* 326, 245 *C.* 1903 [1] 868).
- $C_{12}H_{13}ONBrJ$ 1) Jodmethylat d. 5-Brom-6-Oxychinolinäthyläther. Sm. 215° u. Zers. (*B.* 36, 460 *C.* 1903 [1] 590).
- $C_{12}H_{13}O_2N_2BrS$ 1) 5-Methylsulfon-3,4-Dimethyl-1-[4-Bromphenyl]pyrazol. Sm. 178° (*A.* 331, 243 *C.* 1904 [1] 1221).
- $C_{12}H_{14}N_2BrJS$ 1) Jodmethylat d. 4-Brom-5-Merkapto-3-Methyl-1-Phenylpyrazol. Sm. 179° (*A.* 331, 230 *C.* 1904 [1] 1220).
- $C_{12}H_{15}O_2N_2JS$ 1) Jodmethylat d. 5-Methylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 194° (*A.* 331, 229 *C.* 1904 [1] 1220).
- $C_{12}H_{20}O_2NSP$ 1) Äthylphenylmonamid d. Thiophosphorsäurediäthylester. Fl. *A.* 326, 258 *C.* 1903 [1] 869).
- $C_{12}H_{25}ON_2SP$ 1) 1,1-Dipiperidid d. Thiophosphorsäuremonoäthylester. Sd. 198 bis 210°₂₂ (*A.* 326, 166 *C.* 1903 [1] 762; *A.* 326, 217 *C.* 1903 [1] 822).
- $C_{12}H_{28}O_2NSP$ 1) Diamylmonamid d. Thiophosphorsäuredimethylester. Sd. 118 bis 121°₁₃ (*A.* 326, 213 *C.* 1903 [1] 822).

C₁₃-Gruppe.

- $C_{13}H_{10}$ *1) Fluoren. Sm. 113,5—114,5° (*B.* 36, 878 *C.* 1903 [1] 972).
- $C_{13}H_{12}$ *1) Diphenylmethan (*J. pr.* [2] 67, 128 *C.* 1903 [1] 872; *C.* 1903 [2] 1415).
- $C_{13}H_{16}$ 3) Kohlenwasserstoff (aus 1-Oxy-1-Benzylhexahydrobenzol). Sd. 138°₂₀ (*C. r.* 138, 1323 *C.* 1904 [2] 219; *C. r.* 139, 345 *C.* 1904 [2] 705).
- 4) Kohlenwasserstoff (aus 1-Oxy-1-p-Methylphenylhexahydrobenzol). Sd. 142°₂₀ (*C. r.* 138, 1323 *C.* 1904 [2] 219).
- $C_{13}H_{18}$ *2) α -[4-Isopropylphenyl]- β -Methylpropen. Sd. 235—236°₇₁₅ (*M.* 22, 257 *C.* 1903 [2] 243).
- 11) γ -Phenyl- β -Methyl- β -Hexen. Sd. 210—212°₇₅₅ (*B.* 37, 1726 *C.* 1904 [1] 1516).
- 12) α -Phenyl- γ -Methyl- β -Hexen. Sd. 116°₁₆ (*B.* 37, 2313 *C.* 1904 [2] 216).
- 13) α -[3-Methyl-6-Isopropylphenyl]propen. Sd. 226—228° (*B.* 36, 2237 *C.* 1903 [2] 438).
- 14) α -[2,4,6-Trimethylphenyl]- β -Methylpropen. Sd. 226—227°₇₄₅ (*B.* 37, 929 *C.* 1904 [1] 1209).
- $C_{13}H_{20}$ 14) 2-Isobutyl-1,3,5-Trimethylbenzol. Sd. 228—230°₇₄₅ (*B.* 37, 1719 *C.* 1904 [1] 1489).
- $C_{13}H_{22}$ 2) Hexahydrobenzylidenhexahydrobenzol. Sd. 133°₂₀ (*C. r.* 139, 346 *C.* 1904 [2] 705).
- $C_{13}H_{24}$ 2) Di[Hexahydrophenyl]methan. Krystalle; Sd. 251,5°₅₅₀ (*C.* 1903 [2] 989).
- 3) 3-Isopropyl-9-Methylbicyclo-[1,3,3]-Nonan. Sd. 232—233°₇₅₅ (*B.* 37, 1670 *C.* 1904 [1] 1606).

— 13 II —

- $C_{13}H_6O_5$ C 64,5 — H 2,5 — O 33,0 — M. G. 242.
- 1) Anhydrid d. Naphtalin-1,4,8-Tricarbonsäure. Sm. 243° (*A.* 327, 95 *C.* 1903 [1] 1228).
- $C_{13}H_6Cl_3$ *1) $\alpha\alpha,2,5,2',5'$ -Hexachlordiphenylmethan (*Am.* 30, 398 *C.* 1904 [1] 284).
- $C_{13}H_6O_2$ *6) Xanthon (*C. r.* 136, 1007 *C.* 1903 [1] 1266).
- 14) 3-Oxy-1-Ketofluoren. Sm. 225° (*B.* 35, 4279 *C.* 1903 [1] 333).

- $C_{13}H_9O_2$ 15) α -Naphthocumarin (1,2- α -Naphthopyron). Sm. 141—142° (B. 36, 1967 C. 1903 [2] 376).
- $C_{13}H_9O_4$ 9) 2,3-Dioxyxanthon. Sm. 294° (B. 37, 2736 C. 1904 [2] 542).
- $C_{13}H_9O_6$ 3) Naphtalin-1,4,8-Tricarbonsäure. Ag_3 (A. 327, 95 C. 1903 [1] 1228).
- $C_{13}H_9Cl_4$ *2) $\alpha\alpha,4,4'$ -Tetrachlordiphenylmethan. Sm. 52—53°; Sd. 223°₁₈ (Am. 30, 398 C. 1904 [1] 284).
- 3) $\alpha\alpha,2,4'$ -Tetrachlordiphenylmethan. Sd. 223°₂₈ (Am. 30, 397 C. 1904 [1] 284).
- $C_{13}H_9Br_2$ *2) β -Dibromfluoren. Sm. 158° (163°) (B. 11, 170; B. 37, 3029 C. 1904 [2] 1225).
- $C_{13}H_9Cl$ 1) 9-Chlorfluoren. Sm. 90° (B. 37, 2896 C. 1904 [2] 1310).
- $C_{13}H_9Br_3$ 3) $\alpha,4,4'$ -Tribromdiphenylmethan. Sm. 106—107° (Am. 30, 449 C. 1904 [1] 376).
- $C_{13}H_{10}O$ *1) 9-Oxyfluoren. Sm. 153° (B. 37, 2895 C. 1904 [2] 1310).
- *6) Diphenylketon. + $FeCl_3$ (R. 22, 316 C. 1903 [2] 203; Bl. [3] 29, 1131 C. 1904 [1] 284; Am. 31, 258 C. 1904 [1] 1078; B. 37, 2531 C. 1904 [2] 447).
- $C_{13}H_{10}O_2$ *5) 4-Oxydiphenylketon. Sm. 134° (C. 1904 [2] 1697).
- *7) 1-Phenylbenzol-2-Carbonsäure. Sm. 113,5—114,5°. Cu (B. 36, 881 C. 1903 [1] 973).
- 18) 2-Benzyl-1,4-Benzochinon. Sm. 43° (B. 37, 3487 C. 1904 [2] 1301).
- $C_{13}H_{10}O_3$ *6) 2,4'-Dioxydiphenylketon. Sm. 144° (B. 36, 3901 C. 1904 [1] 94).
- *9) 4,4'-Dioxydiphenylketon. Sm. 208—210° (B. 36, 3899 C. 1904 [1] 94).
- *14) 2-Oxobenzophenyläther-1-Carbonsäure. Sm. 113° (C. r. 136, 1075 C. 1903 [1] 1362; B. 37, 854 C. 1904 [1] 1259).
- 26) γ -Keto- $\alpha\delta$ -Di[2-Furanyl]- $\alpha\delta$ -Pentadien (G. 27 [2] 274). — *III, 521.
- 27) 2,3-Dioxyxanthon. Sm. 173—175° (B. 37, 2734 C. 1904 [2] 542).
- 28) 2-Oxy-1-Phenylbenzol-3-Carbonsäure. Sm. 180° (D.R.P. 61 125).
- *II, 993.
- 29) Aldehyd d. 2-Acetoxylnaphtalin-1-Carbonsäure. Sm. 87° (Bl. [3] 29, 879 C. 1903 [2] 885).
- 30) Verbindung (aus 1,2,3-Trioxylbenzol u. Benzaldehyd). Sm. oberh. 300° (B. 37, 1179 C. 1904 [1] 1162).
- 31) Verbindung (aus Resorcin u. Salicylaldehyd (B. 37, 2737 C. 1904 [2] 542).
- $C_{13}H_{10}O_4$ *12) Monobenzoat d. Maltol. Sm. 115° (B. 36, 3408 C. 1903 [2] 1281).
- *16) $\alpha\delta$ -Di[2-Furanyl]- $\alpha\gamma$ -Butadien- β -Carbonsäure. Sm. 213°. Ag (Soc. 85, 191 C. 1904 [1] 644, 925).
- $C_{13}H_{10}O_5$ 15) 2,3,4,3'-Tetraoxydiphenylketon. Sm. 133° (D.R.P. 49 149, 50 451).
- *III, 158.
- 16) 2,3,4,4'-Tetraoxydiphenylketon. Sm. noch nicht bei 200° (D.R.P. 49 149, 50 451). — *III, 158.
- 17) 3,4,3',4'-Tetraoxydiphenylketon. Sm. 227—228° (D.R.P. 72 446).
- *III, 158.
- $C_{13}H_{10}O_6$ 13) 2,3,4,2',4'-Pentaoxydiphenylketon. Sm. 168—170° (D.R.P. 49 149, 50 451). — *III, 158.
- 14) 3,4,5,2',4'-Pentaoxydiphenylketon. Sm. oberh. 200° (D.R.P. 49 149, 50 451). — *III, 158.
- 15) Diacetat d. 7,8-Dioxy-1,4-Benzpyron. Sm. 110° (B. 36, 129 C. 1903 [1] 468).
- $C_{13}H_{10}O_7$ 2) 2,3,4,2',3',4'-Hexaoxydiphenylketon. Sm. 238° (D.R.P. 49 149, 50 451). — *III, 159.
- 3) 2,3,4,3',4',5'-Hexaoxydiphenylketon. Sm. oberh. 270° (D.R.P. 49 149, 50 451). — *III, 159.
- $C_{13}H_{10}O_8$ *1) Sordidin (A. 327, 324 C. 1903 [2] 508).
- $C_{13}H_{10}N_2$ *8) 2-Phenylindazol. (2HCl, PtCl₄), Pikrat (C. r. 136, 1137 C. 1903 [1] 1416; Bl. [3] 29, 746 C. 1903 [2] 628).
- *10) 2-Phenylbenzimidazol. Sm. 290—292° (C. 1903 [2] 204).
- 22) Azodiphenylmethan. Sm. 76° (C. r. 136, 1137 C. 1903 [1] 1416).
- 4) 4,4'-Dibromdiphenylmethan. Sm. 64° (Am. 30, 449 C. 1904 [1] 376).
- $C_{13}H_{10}Br_2$ *6) α -Phenyl- β -(2-Pyridyl)äthen (B. 36, 119 C. 1903 [1] 469).
- $C_{13}H_{11}N$ 14) α -Phenyl- α -(2-Pyridyl)äthen. Sd. 292—295° u. Zers. (2HCl, PtCl₄), Pikrat (J. pr. [2] 69, 313 C. 1904 [1] 1613).
- 15) α -Phenyl- α -(4-Pyridyl)äthen. Sd. 300—305° (J. pr. [2] 69, 318 C. 1904 [1] 1614).

- $C_{13}H_{11}N$ 16) 1-Methylcarbazol. Sm. 120,5°. Pikrat (A. 332, 86 C. 1904 [1] 1569).
 17) 3-Methylcarbazol. Sm. 203°. Pikrat (A. 332, 89 C. 1904 [1] 1569).
- $C_{13}H_{11}N_3$ 13) 6-Methyl-2-Phenyl-2,1,3-Benzotriazol. Sm. 98,5° (B. 36, 3827 C. 1904 [1] 19).
 14) Diphenylmethyllazid (Benzhydrazid). Sm. 48°? (J. pr. [2] 67, 165 C. 1903 [1] 873).
- $C_{13}H_{11}Cl$ *1) α -Chlordiphenylmethan. Sm. 14° (J. pr. [2] 67, 129 C. 1903 [1] 872).
 $C_{13}H_{12}O$ *1) α -Oxydiphenylmethan (B. 36, 2816 C. 1903 [2] 1127; B. 36, 2823 C. 1903 [2] 1128; Soc. 85, 791 C. 1904 [2] 529).
 *3) 4-Oxydiphenylmethan. Sm. 84° (G. 33 [2] 456 C. 1904 [1] 654; A. 334, 373 C. 1904 [2] 1050).
 *6) Phenyläther d. Oxymethylbenzol. Sm. 39° (B. 36, 2063 C. 1903 [2] 357).
 *10) Methyläther d. 2-Oxybiphenyl. Sm. 29° (B. 36, 4080 C. 1904 [1] 268).
- $C_{13}H_{12}O_2$ 25) 2,5-Dioxydiphenylmethan (Benzylhydrochinon). Sm. 105°; Sd. 230°₁₃ (B. 37, 3487 C. 1904 [2] 1301).
 26) Methyläther d. 2-Oxydiphenyläther. Sm. 77° (Am. 29, 128 C. 1903 [1] 705).
 27) Methyläther d. Methyl-4-Oxy-1-Naphtylketon. Sm. 71—72°; Sd. oberh. 350° (B. 23, 1208). — III, 174; *III, 141.
 28) Aldehyd d. 2-Oxynaphtalinäthyläther-1-Carbonsäure. Sm. 109° (115°) (C. r. 133, 44; B. 36, 1975 C. 1903 [2] 378). — *III, 70.
- $C_{13}H_{12}O_3$ 22) 2-Oxynaphtalinäthyläther-1-Carbonsäure. Sm. 142° (C. r. 136, 618 C. 1903 [1] 881; Bl. [3] 31, 33 C. 1904 [1] 519).
 23) Anhydrid d. α -Phenyl- α -Buten- δ -Carbonsäure- γ -Methylcarbon-säure. Sm. 138° (B. 36, 2339 C. 1903 [2] 438).
 24) Methylester d. 2-Oxynaphtalinmethylläther-1-Carbonsäure. Sm. 52° (B. 37, 3661 C. 1904 [2] 1453).
 25) Methylester d. 3-Oxynaphtalinmethylläther-2-Carbonsäure. Sm. 49° (B. 37, 3661 C. 1904 [2] 1453).
- $C_{13}H_{12}O_4$ 26) Methylbenzoat d. 1,4-Pyron. Sm. 98,5—99° (B. 37, 3749 C. 1904 [2] 1539).
- $C_{13}H_{12}O_5$ 9) Methylderivat d. Verb. $C_{12}H_9O_5$. Sm. 135° (M. 22, 589). — *III, 310.
 $C_{13}H_{12}O_6$ *2) Formaldehydphloroglucid (Methylenbispchloroglucin). Sm. 225° u. Zers. (A. 329, 269 C. 1904 [1] 795).
 9) Di[β -Trioxyphenyl]methan (aus 1,2,4-Trioxybenzol). Sm. 227—230° (B. 37, 1176 C. 1904 [1] 1161).
 10) 1,3,5-Trimethylbenzol-2,4-Di[Ketocarbon-säure] + 2 H₂O. Sm. 100°. K. Ba. — *II, 1174.
 11) 1-Phenyl-R-Tetramethylen-2,3,4-Tricarbon-säure. Sm. 184° (B. 37, 2275 C. 1904 [2] 217).
 12) Dilakton d. β α -Dioxy- δ -Diketo- β -Undekadien- β η -Dicarbon-säure (Methylenbistriacet-säurelakton). Sm. 245° u. Zers. (B. 37, 3391 C. 1904 [2] 1221).
- $C_{13}H_{12}O_7$ 9) Aldehyd d. 2,4,6-Triacetoxylbenzol-1-Carbonsäure. Sm. 122—123° (M. 24, 865 C. 1904 [1] 368).
- $C_{13}H_{12}N_2$ *1) Diphenylformamidin. Dibenzotat (B. 37, 3116 C. 1904 [2] 1316).
 *7) stab. α -Phenyl- β -Benzylidenhydrazin. Sm. 158—160° (C. 1903 [2] 1432).
 *22) 1,2-Dimethyl- β -Naphtimidazol. Pikrat (Soc. 83, 1197 C. 1903 [2] 1445).
 23) 2,N-Dimethyl- α - oder - β -Naphtimidazol. Fl. Pikrat (Soc. 83, 1193 C. 1903 [2] 1444).
 24) Nitril d. α -[1-Naphtyl]amidopropionsäure. Sm. 104—105° (D. R. P. 144536 C. 1903 [2] 779).
- $C_{13}H_{12}J_2$ 3) Phenyl-3-Methylphenyljodoniumjodid. Sm. 165° (A. 327, 276 C. 1903 [2] 350).
- $C_{13}H_{13}N$ *4) α -Amidodiphenylmethan (B. 36, 704 C. 1903 [1] 818).
 *8) Methylidiphenylamin. Sd. 291° (A. 327, 113 C. 1903 [1] 1213).
 21) α -Phenyl- β -[4-Pyridyl]äthan. Sm. 69—71°. (2HCl, PtCl₄), (HCl, AuCl₃) Pikrat (B. 37, 2148 C. 1904 [2] 235).
- $C_{13}H_{13}N_3$ *3) Phenylimido- β -Phenylhydrazidomethan. Sm. 109—109,5° (B. 36, 2481 C. 1903 [2] 559).

- $C_{13}H_{13}N_3$ *4) α -Phenyl- β -[2-Amidobenzyliden]hydrazin (*B.* 36, 4184 *C.* 1904 [1] 279).
- 24) α -Phenylhydrazon- α -Amido- α -Phenylmethan. $HCl + \frac{1}{2}H_2O$ (*B.* 36, 2484 *C.* 1903 [2] 490).
- $C_{13}H_{14}O_2$ 25) 4-Phenylazo-2,6-Dimethylpyridin. Sm. 62–63°. (2HCl, $PtCl_4$), $H_2Cr_2O_7$, Pikrat (*B.* 36, 1119 *C.* 1903 [1] 1185).
- 10) 7-Oxy-4-Methylen-2,3,5-Trimethyl-1,4-Benzpyran. $HCl + H_2O$, Pikrat (*B.* 37, 1795 *C.* 1904 [1] 1612).
- $C_{13}H_{14}O_4$ *7) Aethylester d. Benzoylacetessigsäure. Cu (*B.* 37, 3395 *C.* 1904 [2] 1221).
- 30) α -Phenyl- α -Buten- δ -Carbonsäure- γ -Methylcarbonsäure (Cinnamenylglutarsäure). Sm. 135° (*B.* 36, 2339 *C.* 1903 [2] 438).
- 31) Dimethylester d. α -Phenylpropen- $\beta\gamma$ -Dicarbonsäure. Sd. 186° (*M.* 24, 369 *C.* 1903 [2] 496).
- $C_{13}H_{14}O_5$ *4) α -Keto- α -Phenylpentan- $\gamma\gamma$ -Dicarbonsäure. 2 + $CHCl_3$ (*C.* 1904 [1] 1259).
- 11) β -Benzoylbutan- α -Dicarbonsäure. Sm. 140° u. Zers. (*C.* 1904 [1] 1258).
- 12) Monoacetat d. 3,5-Dioxy-2,4-Diacetyl-1-Methylbenzol. Sm. 75° (*Soc.* 85, 978 *C.* 1904 [2] 454, 711).
- 13) Verbindung (aus Harnstoff u. d. Verb. $C_{11}H_8O_4$). Zers. bei 200° (*Soc.* 83, 189 *C.* 1903 [1] 670).
- $C_{13}H_{14}O_6$ 27) Lakton d. 1-Benzylidengulonsäure. Sm. 174° (*R.* 19, 180). — *III, 7.
- 28) Diacetat d. Methyl-2,3,4-Trioxypheylketonmonomethyläther. Sm. 146–148° (*Soc.* 83, 132 *C.* 1903 [1] 89, 466).
- $C_{13}H_{14}O_7$ 10) 2,3,5-Triacetat d. 1,2,3,5-Tetraoxybenzol-1-Methyläther. Zers. bei 103–105° (*M.* 23, 956 *C.* 1903 [1] 286).
- $C_{13}H_{14}N_2$ *17) uns-Phenylbenzylhydrazin. Sd. 216–218°₃₅ (*M.* 25, 599 *C.* 1904 [2] 1294).
- 36) Diphenylmethylhydrazin (Benzhydrylhydrazin). Sm. 58–59°; Sd. 188°₁₂. HCl , HNO_3 , HNO_2 , Pikrat, Oxalat (*J. pr.* [2] 67, 125 *C.* 1903 [1] 872).
- 37) 3-Methyl-6-[β -Phenyläthenyl]-2,5-Dihydro-1,4-Diazin. Sd. 151°₁₀. 2HCl, (2HCl, $PtCl_4$) (*M.* 25, 1075 *C.* 1904 [2] 1659).
- $C_{13}H_{15}N$ 17) 2-[oder 4]-Methyl-1,2,3,4-Tetrahydrocarbazol. Sm. 98–99°. Pikrat (*C.* 1904 [2] 343).
- $C_{13}H_{15}N_3$ 6) 4-Phenylhydrazido-2,6-Dimethylpyridin. Sm. 172–180°. HCl , (2HCl, $PtCl_4$) (*B.* 36, 1118 *C.* 1903 [1] 1185).
- $C_{13}H_{16}O$ *4) Benzoylhexahydrobenzol. Sm. 51° (*C.* r. 139, 345 *C.* 1904 [2] 705).
- 6) 2,2-Diäthyl-1,2-Benzpyran. Sd. 126–127°₁₅ (*B.* 37, 495 *C.* 1904 [1] 805).
- $C_{13}H_{16}O_2$ *9) α -[4-Isopropylphenyl]propen- β -Carbonsäure. Sm. 90–91° (*A.* 330, 264 *C.* 1904 [1] 947).
- *15) Diäthyläther d. $\gamma\gamma$ -Dioxy- α -Phenylpropin. Sd. 144–145°₁₄ (*C.* r. 138, 1340 *C.* 1904 [2] 187).
- 22) Aethyläther d. α -Oxy- γ -Keto- α -Phenyl- α -Penten. Sd. 167–170°₁₆ (*C.* r. 139, 209 *C.* 1904 [2] 649).
- 23) Isobutylester d. β -Phenylakrylsäure. Sd. 164–165°_{16–17} (*Soc.* 83, 673 *C.* 1903 [2] 115).
- 24) Acetat d. γ -[2-Oxyphenyl]- β -Penten. Sd. 132–134°₂₃ (*Bl.* [3] 29, 353 *C.* 1903 [1] 1222).
- 25) Benzoat d. β -Oxy- α -oder- β -Hexen. Sd. 170–175°₅₀ (*Soc.* 83, 151 *C.* 1903 [1] 72, 436).
- $C_{13}H_{16}O_3$ 28) β -Oxy- α -Phenyl- α -Butenäthyläther- α -Carbonsäure. Sm. 92°. Cu (*B.* 36, 2248 *C.* 1903 [2] 436).
- 29) isom. β -Oxy- α -Phenyl- α -Butenäthyläther- α -Carbonsäure. Sm. 108°. Cu (*B.* 36, 2248 *C.* 1903 [2] 436).
- 30) isom. β -Oxy- α -Phenyl- α -Butenäthyläther- α -Carbonsäure. Sm. 92–93°. Cu (*B.* 36, 2248 *C.* 1903 [2] 436).
- 31) β -Oxy- α -Phenyl- β -Butenäthyläther- α -Carbonsäure + H_2O . Sm. 86–87°. Cu (*B.* 36, 2246 *C.* 1903 [2] 435).
- 32) Methylester d. α -[2-Aethoxyphenyl]propen- γ -Carbonsäure. Fl. (*B.* 37, 3988 *C.* 1904 [2] 1639).
- 33) Methylester d. α -[3-Aethoxyphenyl]propen- γ -Carbonsäure. Sd. 175 bis 176°₁₄ (*B.* 37, 3989 *C.* 1904 [2] 1639).

- $C_{13}H_{16}O_3$ 34) Aethylester d. β -Oxy- β -Phenylakryl- α -Buten-1,3-dithersäure. *Sd.* 167—168°₁₈ (*C. r.* 138, 208 *C. 1904* [1] 659; *Bl.* [3] 31, 516 *C. 1904* [1] 1602).
- $C_{13}H_{16}O_4$ 35) Aethylester d. β -Keto- α -Phenylbutan- α -Carbonsäure (Ae. d. Propionylphenyllessigsäure). *Sd.* 154—156°₁₈ (*B.* 36, 2243 *C. 1903* [2] 435).
- 31) Trimethyläther d. γ -Keto- α -[2, 4, 5-Trioxyphenyl]- α -Buten. *Sm.* 96,5° (*Ar.* 242, 102 *C. 1904* [1] 1008).
- 32) Trimethyläther d. γ -Keto- α -[2, 4, 6-Trioxyphenyl]- α -Buten. *Sm.* 118—120° (*M.* 24, 870 *C. 1904* [1] 368).
- 33) Aethylester d. β -[3, 4-Dioxyphenyl]akryl-3, 4-Dimethyläthersäure. *Sm.* 59°; *Sd.* 196—197°₁₁ (*C. 1903* [1] 580; *Soe.* 85, 164 *C. 1904* [1] 724).
- 34) Aethylester d. isom. β -[2, 4-Dioxyphenyl]akryl-2, 4-Dimethyläthersäure. *Sm.* 61°; *Sd.* 208°₁₃ (*C. 1903* [1] 580; *Soe.* 85, 162 *C. 1904* [1] 724).
- $C_{13}H_{16}O_5$ 15) Trimethyläther d. $\alpha\gamma$ -Diketo- α -[2, 3, 4-Trioxyphenyl]butan. *Sm.* 65° (*B.* 36, 2191 *C. 1903* [2] 384).
- 16) Trimethyläther d. $\alpha\gamma$ -Diketo- α -[2, 4, 6-Trioxyphenyl]butan. *Sm.* 94—95° (*B.* 37, 2100 *C. 1904* [2] 122).
- 17) Trimethylester d. β -[2, 4, 6-Trioxyphenyl]akryltrimethyläthersäure. *Sm.* 134—135° (*M.* 24, 869 *C. 1904* [1] 368).
- $C_{13}H_{16}O_6$ *1) β -Pikroerythrin (*Bl.* [3] 31, 613 *C. 1904* [2] 99).
- $C_{13}H_{16}O_7$ 9) Dimethylester d. 3, 4-Dioxybenzoldimethyläther-1-Carbonsäure-2-Oxyessigsäure. *Sm.* 84—87° (*M.* 25, 892 *C. 1904* [2] 1313).
- $C_{13}H_{16}O_{10}$ C 47,0 — H 4,8 — O 48,2 — M. G. 332.
- 1) Glykogallin. *Sm.* 200° u. Zers. (*C. 1903* [1] 883; *C. r.* 136, 386 *C. 1903* [1] 722).
- 2) Pentamethylester d. Propen- $\alpha\beta\gamma\gamma$ -Pentacarbonsäure (P. d. Dicarb-oxyaconitsäure). *Sm.* 62°. Na, Methylaminsalz (*A.* 327, 233 *C. 1903* [1] 1406).
- $C_{13}H_{16}N_2$ 8) 3-Propyl-5-Phenylpyrazol. *Sm.* 105° (*C. r.* 139, 296 *C. 1904* [2] 710).
- 9) Nitril d. α -Phenyl- α -[1-Piperidyl]essigsäure. *Sm.* 62—63° (63—64°) (*B.* 37, 4086 *C. 1904* [2] 1724).
- $C_{13}H_{16}N_4$ 3) 2-Amido-6-Phenylamido-4-Methyl-5-Aethyl-1, 3-Diazin. *Sm.* 158 bis 159° (*B.* 36, 1920 *C. 1903* [2] 208).
- $C_{13}H_{17}N$ *5) 1, 3, 3-Trimethyl-2-Aethyliden-2, 3-Dihydroindol. *Sd.* 257°₇₅₇. (HCl, AuCl₃) (*G.* 32 [2] 434 *C. 1903* [1] 838).
- *6) 2-Methylen-1, 3-Dimethyl-3-Aethyl-2, 3-Dihydroindol (*G.* 32 [2] 406 *C. 1903* [1] 838).
- 21) Diallyl-2-Methylphenylamin. *Sd.* 229—232°. Pikrat (*C. 1903* [2] 28).
- 22) Diallyl-3-Methylphenylamin. *Sd.* 245—249°. Pikrat (*C. 1903* [2] 28).
- 23) Diallyl-4-Methylphenylamin. *Sd.* 252—257°. Pikrat (*C. 1903* [2] 28).
- 24) 2 [oder 4]-Methylhexahydrocarbazon. *Sm.* 102—103°. (2HCl, PtCl₄, HBr. HJ (*C. 1904* [2] 343).
- $C_{13}H_{17}N_3$ 2) 3-Methylimido-1, 4, 5-Trimethyl-2-Phenyl-2, 3-Dihydropyrazol. Pikrat (*B.* 36, 3289 *C. 1903* [2] 1191).
- 3) 3-Aethylimido-1, 5-Dimethyl-2-Phenyl-2, 3-Dihydropyrazol. Pikrat (*B.* 36, 3287 *C. 1903* [2] 1190).
- $C_{13}H_{16}O$ 16) α -Oxybenzylhexahydrobenzol. *Sm.* 41°; *Sd.* 168°₂₀ (*C. r.* 139, 345 *C. 1904* [2] 704).
- 17) 1-Oxy-1-Benzylhexahydrobenzol. *Sm.* 33°; *Sd.* 160°₂₀ (*C. r.* 138, 1322 *C. 1904* [2] 219).
- 18) 1-Oxy-1-[4-Methylphenyl]hexahydrobenzol. *Sm.* 0°; *Sd.* 151°₂₀ (*C. r.* 138, 1322 *C. 1904* [2] 219).
- 19) Aethyläther d. γ -[2-Oxyphenyl]- β -Penten. *Sd.* 121—122,5°₂₁ (*Bl.* [3] 29, 354 *C. 1903* [1] 1222).
- 20) Isopropyl-2, 4, 6-Trimethylphenylketon. *Sd.* 142°₂₀ (*B.* 37, 928 *C. 1904* [1] 1209).
- $C_{13}H_{18}O_2$ *23) Aethyläther d. Propyl-6-Oxy-3-Methylphenylketon. *Sd.* 205°₁₀₀ (*B.* 36, 3892 *C. 1904* [1] 93).
- 32) α -Oxyäthyl-2-Methyl-5-Isopropylphenylketon. *Sd.* 153°₁₅ (*C. 1899* [1] 959). — *III, 125.
- 33) Aldehyd d. Oxymethyl-tert. Butylbenzoldimethyläthercarbonsäure. *Sm.* 78°; *Sd.* 280—285° (D. R. P. 94019). — *III, 67.
- $C_{13}H_{16}O_3$ 40) Aldehyd d. α -Oxy- α -[3-Aethoxyphenyl]- β -Methylpropan- β -Carbonsäure. *Fl.* (*M.* 24, 169 *C. 1903* [1] 968).

- $C_{13}H_{18}O_3$ 41) Aethylester d. β -Oxy- β -Phenyl- $\alpha\alpha$ -Dimethylpropionsäure. Sm. 39° ; Sd. 219^{120}_{120} (*J. r.* 28, 595). — *II, 937.
- $C_{13}H_{18}O_4$ 16) $\beta\beta$ -Dioxy- β -Phenylpropiondiäthyläthersäure. Sm. 68° (*C. r.* 138, 207 *C.* 1904 [1] 659).
- 17) Aethylester d. 2,4-Dioxybenzoldiäthyläthersäure. Fl. (*M.* 24, 893 *C.* 1904 [1] 512).
- $C_{13}H_{18}O_5$ 14) 4-Keto-1,3-Diacetyl-1,3-Di[Oxymethyl]-6-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 145° (*B.* 36, 2174 *C.* 1903 [2] 371).
- 15) Methyl ester d. 2,4,6-Trioxo-1,3-Dimethylbenzoltrimethyläther-5-Carbonsäure. Sm. $49-50^\circ$; Sd. $178-180^{15}_{15}$ (*M.* 24, 107 *C.* 1903 [1] 966).
- 16) Aethylester d. 5-Oxy-1,4-Pyromamyläther-2-Carbonsäure (Ac. d. Komenamyläthersäure). Sm. $79-80^\circ$ (*G.* 33 [2] 266 *C.* 1904 [1] 45).
- $C_{13}H_{18}O_6$ 11) Dimethylester d. 3-Keto-4-Oxy-1,1,2-Trimethyl-2,3-Dihydro-R-Penten-4-Methyläther-2,5-Dicarbonsäure. Sd. $167-168^{12}_{12}$ (*B.* 36, 4335 *C.* 1904 [1] 456).
- $C_{13}H_{18}O_8$ 3) Säure (aus Cholesterin). $Cu_2 + 2H_2O$, Ag_3 (*M.* 24, 180 *C.* 1903 [2] 20).
- $C_{13}H_{18}Br_2$ 3) $\beta\gamma$ -Dibrom- γ -Phenyl- β -Methylhexan. Fl. (*B.* 37, 1726 *C.* 1904 [1] 1516).
- 4) $\alpha\beta$ -Dibrom- α -[4-Isopropylphenyl]- β -Methylpropen (*M.* 24, 257 *C.* 1903 [2] 243).
- 5) $\alpha\beta$ -Dibrom- α -[2,4,6-Trimethylphenyl]- β -Methylpropan. Fl. (*B.* 37, 929 *C.* 1904 [1] 1209).
- $C_{13}H_{19}O_6$ 1) Aneubin + H_2O (*C. r.* 138, 1115 *C.* 1904 [1] 1652).
- $C_{13}H_{19}N$ 13) Phenyl-3-Methylhexahydrophenylamin. Sd. 175^{20}_{20} (*C. r.* 138, 1258 *C.* 1904 [2] 105).
- 14) d-2-[β -Phenyläthyl]hexahydro-pyridin (d-Stilbazolin). d-Tartrat (*B.* 36, 3696 *C.* 1903 [2] 1382; *B.* 37, 3688 *C.* 1904 [2] 1508).
- 15) l-2-[β -Phenyläthyl]hexahydro-pyridin. d-Tartrat + H_2O (*B.* 36, 3696 *C.* 1903 [2] 1382; *B.* 37, 3688 *C.* 1904 [2] 1508).
- 16) Isostilbazolin. Sd. $156-158^{20}_{20}$. Tartrat, Camphersulfonat (*B.* 36, 3696 *C.* 1903 [2] 1382; *B.* 37, 3688 *C.* 1904 [2] 1508).
- 17) 1,3,3-Trimethyl-2-Aethyl-2,3-Dihydroindol. Sd. 141^{21}_{21} . Pikrat (*G.* 32 [2] 438 *C.* 1903 [1] 838).
- $C_{13}H_{19}Cl$ 2) γ -Chlor- γ -Phenyl- β -Methylhexan. Fl. (*B.* 37, 1726 *C.* 1904 [1] 1516).
- 3) α -Chlor- α -[2,4,6-Trimethylphenyl]- β -Methylpropan. Fl. (*B.* 37, 929 *C.* 1904 [1] 1209).
- $C_{13}H_{20}O$ *16) α -Jonon. Sd. 134.3^{16}_{16} . + $NaHSO_3$ + $1\frac{1}{2}H_2O$, + $KHSO_3$ (*C.* 1904 [1] 280, 282; D.R.P. 139959 *C.* 1903 [1] 858).
- *17) β -Jonon. Sd. 140.4^{16}_{16} . + $NaHSO_3$ + $2H_2O$, + $Ca(H_2SO_3)_2$ + $4H_2O$ (*C.* 1904 [1] 281, 282; D.R.P. 138100 *C.* 1903 [1] 304).
- *18) Pseudojonon (D.R.P. 147839 *C.* 1904 [1] 128).
- 28) γ -Oxy- γ -Phenyl- β -Methylhexan. Sd. $230-232^{750}_{750}$ (*B.* 37, 1726 *C.* 1904 [1] 1515).
- 29) α -Oxy- α -[2,4,6-Trimethylphenyl]- β -Methylpropan. Sd. $149-150^{19}_{19}$ (*B.* 37, 928 *C.* 1904 [1] 1209).
- 30) Isoamyläther d. 2-Methyl-1-Oxymethylbenzol. Sd. 124^{15}_{15} (D.R.P. 154658 *C.* 1904 [2] 1355).
- 31) Isopropylidencampher. Sd. $200-204^{788}_{788}$ (*B.* 35, 3911 *C.* 1903 [1] 29; *B.* 36, 2631 *C.* 1903 [2] 625).
- 32) Allylcampher. Sd. 130^{20}_{20} (*C. r.* 136, 790 *C.* 1903 [1] 1086).
- 33) Camphenilidenacetone. Sd. $147-150^{22}_{22}$ (D.R.P. 138211 *C.* 1903 [1] 269).
- $C_{13}H_{20}O_2$ 16) Propionylcampher (Oxypropylidencampher). Sd. 138.5^{11}_{11} . Cu (*B.* 36, 2638 *C.* 1903 [2] 626; *B.* 37, 763 *C.* 1904 [1] 1085; *B.* 37, 2181 *C.* 1904 [2] 224).
- 17) 9-Methyl-3-Isopropenylbicyclo-[1,3,3]-nonan-5-ol-7-on. Sd. 182 bis 183^{12-15}_{12-15} (*B.* 36, 228 *C.* 1903 [1] 514).
- 18) Beljabieninsäure. Sm. $113-115^\circ$. K (*Ar.* 240, 586 *C.* 1903 [1] 164).
- 19) Galbanumsäure. Sm. $155-156^\circ$. K, Ba, Ag (*Ar.* 242, 533 *C.* 1904 [2] 1418).
- 20) Palabieninsäure. Sm. 110° (*Ar.* 240, 575 *C.* 1903 [1] 163).

- $C_{15}H_{20}O_2$ 21) Methylester d. Citrylidenessigsäure. *Sd.* 133°₁₆ (D.R.P. 153575 *C.* 1904 [2] 677).
- 22) Methylester d. Cyklocitrylidenessigsäure. *Sd.* 138°₁₇ (D.R.P. 153575 *C.* 1904 [2] 678).
- $C_{15}H_{20}O_3$ *6) Methylester d. α -Methylcamphocarbonsäure. *Sm.* 85° (*C. r.* 137, 1067 *C.* 1904 [1] 282).
- *7) Aethylester d. Camphocarbonsäure. *Sd.* 164°₂₀ (*C. r.* 136, 240 *C.* 1903 [1] 584; *B.* 37, 3947 *C.* 1904 [2] 1569).
- 16) 2,3-Dimethyläther-5-Aethyläther d. 2,3,5-Trioxy-1-Propylbenzol. *Sd.* 144—150°₁₁ (*Ar.* 242, 346 *C.* 1904 [2] 525).
- 17) 2,5-Dimethyläther-3-Aethyläther d. 2,3,5-Trioxy-1-Propylbenzol. *Sd.* 147—149°₁₂ (*B.* 36, 1719 *C.* 1903 [2] 114).
- 18) 3-Aethyläther d. $\alpha\gamma$ -Dioxy- α -[3-Oxyphenyl]- $\beta\beta$ -Dimethylpropan. *Sd.* 210°₁₃ (*M.* 24, 171 *C.* 1903 [1] 968).
- 19) Oxyketoisopropenylmethylbicyklononan. *Sd.* 175—185°₁₅ (*B.* 37, 1670 *C.* 1904 [1] 1606).
- 20) Methylester d. β -Methylcamphocarbonsäure. *Sd.* 135—140°₁₃ (*C. r.* 137, 1067 *C.* 1904 [1] 282).
- 21) d-Bornylester d. Brenztraubensäure. *Sd.* 149—150°₁₅ (*P. Ch. S.* No. 230). — *III, 338.
- 22) Aethylcarbonat d. Campher (Carboxyäthylcampher). *Fl.* (*C.* 1903 [1] 922).
- $C_{15}H_{20}O_6$ *2) Diäthylester d. $\beta\zeta$ -Diketopentan- $\gamma\epsilon$ -Dicarbonsäure. *Sd.* 215—218°₃₅₋₃₇ (*A.* 332, 10 *C.* 1904 [1] 1564).
- *9) Diäthylester d. 1-Oxy-5-Keto-1-Methylhexahydrobenzol-2,4-Dicarbonsäure. *Sm.* 79° (*A.* 332, 12 *C.* 1904 [1] 1564).
- 11) $\beta\beta\delta\delta$ -Tetraacetyl- $\alpha\epsilon$ -Dioxypentan + 2H₂O. *Sm.* 95° (129° wasserfrei) (*B.* 36, 2172 *C.* 1903 [2] 371).
- 12) Diäthylester d. 2,6-Dioxy-2-Methyl-1,2,3,4-Tetrahydrobenzol-3,5-Dicarbonsäure. *Fl.* Na (*A.* 332, 15 *C.* 1904 [1] 1564).
- 13) Triäthylester d. 1-Methyl-R-Trimethylcyen-2,2,3-Tricarbonsäure. *Sd.* 163—164°₁₅ (*B.* 36, 1085 *C.* 1903 [1] 1126).
- $C_{15}H_{20}N_2$ 5) Verbindung (aus d. Verb. $C_{15}H_{14}N_2$). *Sd.* 153°₁₁. 2HCl (*M.* 25, 1078 *C.* 1904 [2] 1659).
- $C_{15}H_{22}O$ 8) Allyläther d. l-Borneol. *Sd.* 105—107°₁₇ (*C. r.* 138, 1665 *C.* 1904 [2] 441).
- 9) Allyläther d. l-Linalool. *Sd.* 103—105°₁₅ (*C. r.* 138, 1667 *C.* 1904 [2] 441).
- 10) κ -Keto- $\beta\zeta$ -Dimethyl- $\alpha\theta$ -Undekadien (Citronellalacetone). *Sd.* 142 bis 144,5°₁₄ (D.R.P. 75128; *B.* 36, 2801 *C.* 1903 [2] 878).
- 11) Di[Hexahydrophenyl]keton. *Sd.* 159°₂₀ (*C. r.* 139, 346 *C.* 1904 [2] 705).
- 12) Allylmenthon. *Sd.* 134—137°₂₀ (*C. r.* 138, 1140 *C.* 1904 [2] 106).
- 13) Vetiron. *Sd.* 149—150°₁₀ (D.R.P. 142415 *C.* 1903 [2] 79).
- 14) Keton (aus Methylpropylketon und Acetylchlorid). *Sd.* oberh. 300° (*C.* 1903 [2] 656).
- $C_{15}H_{22}O_3$ 9) Pseudojononhydrat. *Sd.* 176—178° (D.R.P. 143724 *C.* 1903 [2] 473).
- 10) α -Oxyisopropylcampher. *Sm.* 88°; *Sd.* 210—215° (*B.* 35, 3911 *C.* 1903 [1] 29; *B.* 36, 2630 *C.* 1903 [2] 625).
- 11) 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-Nonan-5,7-diol. *Sm.* 172 bis 173° (*B.* 36, 231 *C.* 1903 [1] 514).
- 12) isom. 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-Nonan-5,7-diol. *Sd.* 198°₁₅ (*B.* 36, 232 *C.* 1903 [1] 514).
- 13) Methylester d. α -Undekin- α -Carbonsäure. *Sd.* 168—172°₂₀ (*Bl.* [3] 29, 661 *C.* 1903 [2] 487; *C. r.* 136, 554 *C.* 1903 [1] 825).
- 14) Methylester d. $\beta\zeta$ -Dimethyl- $\alpha\theta$ -Nonadien- ι -Carbonsäure. *Sd.* 135 bis 137°₁₄ (*B.* 36, 2799 *C.* 1903 [2] 877).
- 15) Propionat d. d-Borneol. *Sd.* 109—110°₁₀₋₁₁ (D.R.P. 80711). — *III, 337.
- 16) Propionat d. Isoborneol. *Sd.* 150°₁₃ (*C. r.* 136, 239 *C.* 1903 [1] 584).
- 17) Propionat d. l-Linalool. *Sd.* 115°₁₀₋₁₁ (D.R.P. 80711). — *III, 346.
- $C_{15}H_{22}O_3$ 8) Aethylester d. 3-Keto-1-Methyl-2-Isobutyl-R-Pentamethylen-2-Carbonsäure. *Sd.* 188—190°₁₈ (*C. r.* 138, 210 *C.* 1904 [1] 663).

- $C_{13}H_{22}O_8$ 9) r-Rhodinolester d. Brenztraubensäure. Sd. 143°_{10} (*C. r.* 138, 1701 *C.* 1904 [2] 440).
- $C_{13}H_{22}O_4$ 15) β -Aethylhomocampfersäure. Sm. 135—140° (*C. r.* 138, 578 *C.* 1904 [1] 949).
- 16) Diacetat d. 5-Oxy-2-Oxymethyl-1,3-Dimethylhexahydrobenzol. Sd. 160°_{18} (D. R. P. 148207 *C.* 1904 [1] 487).
- $C_{13}H_{22}O_6$ 16) Triacetat d. δ -Oxy- $\gamma\gamma$ -Di[Oxymethyl]- β -Methylbutan. Sm. 33—34° (*B.* 36, 1346 *C.* 1903 [1] 1298).
- 17) β -Acetat- $\alpha\gamma$ -Dibutyrat d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 289—291° (*C.* 1903 [1] 134).
- $C_{13}H_{24}O$ 2) α -Oxydi[Hexahydrophenyl]methan. Sm. 63°; Sd. 166°_{20} (*C. r.* 139, 345 *C.* 1904 [2] 705).
- 3) Allyläther d. l-Menthol. Sd. 103—104°₁₈ (*C. r.* 138, 1665 *C.* 1904 [2] 441).
- 4) Propylmenthon. Sd. 128—132°₁₉ (*C. r.* 138, 1140 *C.* 1904 [2] 106).
- $C_{13}H_{24}O_2$ 9) Diäthyläther d. $\alpha\alpha$ -Dioxy- β -Nonin. Sd. 127°_{11} (*C. r.* 138, 1340 *C.* 1904 [2] 187).
- 10) Propionat d. l-Menthol. Sd. 118°_{15} (*B.* 31, 364). — *III, 333.
- $C_{13}H_{24}O_3$ 7) Caprylat d. α -Oxy- β -Ketopropan. Sd. 165—170°₂₅ (*C. r.* 138, 1275 *C.* 1904 [2] 93).
- $C_{13}H_{24}O_4$ *1) Brassylsäure (*G.* 34 [2] 54 *C.* 1904 [2] 693).
- 21) Diacetat d. α -Dioxynonan. Sd. 161°_9 (*M.* 25, 1086 *C.* 1904 [2] 1698).
- $C_{13}H_{24}O_5$ *2) Diäthylester d. γ -Oxy- $\beta\delta$ -Dimethylpentan- $\beta\delta$ -Dicarbonsäure (*Bl.* [3] 31, 117 *C.* 1904 [1] 643).
- $C_{13}H_{26}O$ *2) β -Ketotridekan. Sm. 28°; Sd. 140—142°₁₄₋₁₅ (*Bl.* [3] 29, 1128 *C.* 1904 [1] 258).
- 6) Aldehyd d. Dodekan- α -Carbonsäure. Sd. 152°_{24} (*C. r.* 138, 699 *C.* 1904 [1] 1066).
- $C_{13}H_{26}O_2$ 10) Methylester d. Laurinsäure. Sm. 5°; Sd. 148°_{18} (*Bl.* [3] 29, 1121 *C.* 1904 [1] 259).
- $C_{13}H_{30}N_2$ *1) Di[Dipropylamido]methan. Sd. 115°_{15} (*B.* 36, 1197 *C.* 1903 [1] 1215).
- $C_{13}O_3Cl_{10}$ *1) Di[Pentachlorphenylester] d. Kohlensäure. Sm. 258° (*C. r.* 138, 981 *C.* 1904 [1] 1413).

— 13 III —

- $C_{18}HO_3Cl_9$ 1) 2,3,4,5,6,2',3',4',6'-Nonachlordiphenylester d. Kohlensäure. Sm. 168—169° (*C. r.* 138, 981 *C.* 1904 [1] 1413).
- $C_{18}H_2O_9Cl_8$ 1) 2,3,4,6,2',3',4',6'-Oktochlordiphenylester d. Kohlensäure. Sm. 67° (*C. r.* 138, 981 *C.* 1904 [1] 1413).
- $C_{18}H_3O_9Cl_7$ 1) 2,3,4,6,2',4',6'-Heptachlordiphenylester d. Kohlensäure. Sm. 175 bis 176° (*C. r.* 138, 981 *C.* 1904 [1] 1413).
- $C_{18}H_4O_9Br_6$ 1) 2,3,5-Tribrom-4-Keto-1-[2,3,5-Tribrom-4-Oxybenzyliden]-1,4-Dihydrobenzol. Sm. 245° (*A.* 330, 71 *C.* 1904 [1] 1148).
- $C_{18}H_4O_9Cl_6$ 1) 2,4,6,2',4',6'-Hexachlordiphenylester d. Kohlensäure. Sm. 153 bis 154° (*C. r.* 138, 911 *C.* 1904 [1] 1412).
- $C_{18}H_4O_9Br_5$ 1) α -Verbindung (aus Methylalkohol u. 3,4,5,6-Tetrabrom-1,2-Benzochinon). Zers. bei 50° (*Am.* 31, 97 *C.* 1904 [1] 802).
- 2) β -Verbindung (aus Methylalkohol u. 3,4,5,6-Tetrabrom-1,2-Benzochinon). Sm. 261° u. Zers. (*B.* 36, 454 *C.* 1903 [1] 574; *Am.* 31, 98 *C.* 1904 [1] 802).
- $C_{18}H_5O_9Cl_5$ *1) Pentachlorphenylester d. Benzolcarbonsäure. Sm. 164—165° (*B.* 37, 4020 *C.* 1904 [2] 1717).
- $C_{18}H_5O_9Br_4$ 1) α , 2,3,5,2',3',5'-Heptabrom-4,4'-Dioxybiphenylmethan. Sm. 205 bis 206° u. Zers. (*A.* 330, 68 *C.* 1904 [1] 1147).
- $C_{18}H_5O_9Cl_5$ 1) 2,4,6,2',4'-Pentachlorphenylester d. Kohlensäure. Sm. 94° (*C. r.* 138, 911 *C.* 1904 [1] 1412).
- 2) isom. Pentachlordiphenylester d. Kohlensäure. Sm. 130° (*C. r.* 138, 981 *C.* 1904 [1] 1413).
- $C_{18}H_6O_9Br_3$ *3) β -Dibrom-4-Ketofluoren. Sm. 202° (197—198°) (*B.* 37, 3030 *C.* 1904 [2] 1225).
- $C_{18}H_6O_9Cl_4$ *1) 2,3,4,6-Tetrachlorphenylester d. Benzolcarbonsäure. Sm. 115° (*B.* 37, 4015 *C.* 1904 [2] 1716).

- $C_{13}H_3O_7Br_8$ 2) 2, 3, 5, 2', 3', 5'-Hexabrom-4, 4'-Dioxydiphenylmethan. Sm. 204° (A. 330, 67, 80 C. 1904 [1] 1147).
- $C_{13}H_6O_8Cl_4$ 1) 2, 4, 2', 4'-Tetrachlorphenylester d. Kohlensäure. Sm. 122—123° (C. r. 138, 911 C. 1904 [1] 1412).
- 2) isom. 2, 4, 2', 4'-Tetrachlordiphenylester d. Kohlensäure. Sm. 88 bis 89° (C. r. 138, 911 C. 1904 [1] 1412).
- $C_{13}H_6O_8Br_8$ 1) 2, 3, 5, 2', 3', 5'-Hexabrom- α , 4, 4'-Trioxydiphenylmethan. Sm. 250° u. Zers. (A. 330, 75 C. 1904 [1] 1148).
- $C_{13}H_6O_4N_4$ C 55,3 — H 2,1 — O 22,7 — N 19,9 — M. G. 282.
- 1) Nitril d. 6-Oxy-2-Keto-4-[4-Nitrophenyl]-2, 5-Dihydropyridin-3, 5-Dicarbonsäure. Zers. bei 270—275°. $NH_4 + 1\frac{1}{2}H_2O$, Ba + $6H_2O$ (C. 1904 [1] 878).
- $C_{13}H_6O_{11}N_4$ 2) 3, 5, 3', 5'-Tetranitro-4, 4'-Dioxydiphenylketon. Sm. 203° (G. 34 [1] 382 C. 1904 [2] 111).
- $C_{13}H_6O_{13}N_6$ C 34,4 — H 1,3 — O 45,8 — N 18,5 — M. G. 454.
- $C_{13}H_7OCl_5$ 1) Hexanitro-4-Methyldiphenyläther (C. 1903 [1] 634).
- 1) Benzyläther d. Pentachloroxybenzol. Sm. 167—168° (B. 37, 4020 C. 1904 [2] 1717).
- $C_{13}H_7OBr_5$ 1) 2, 3, 5, 6, 4'-Pentabrom-4-Oxydiphenylmethan. Sm. 146—147° (A. 334, 376 C. 1904 [2] 1051).
- $C_{13}H_7O_3Cl_3$ 2) 2, 4, 4'-Trichlordiphenylester d. Kohlensäure. Sm. 115° (C. r. 138, 911 C. 1904 [1] 1412).
- 3) p-Trichlordiphenylester d. Kohlensäure. Sm. unterhalb 100° (C. r. 138, 911 C. 1904 [1] 1412).
- $C_{13}H_7O_4N_3$ 2) Nitril d. 2, 6-Diketo-4-[3, 4-Dioxyphenyl]-1, 2, 3, 6-Tetrahydropyridin-3, 5-Dicarbonsäure. 2 isom. Formen. $NH_4 + H_2O$, Ba + H_2O (C. 1904 [2] 903).
- $C_{13}H_8OCl_2$ *1) 4, 4'-Dichlordiphenylketon. Sm. 145° (146°) (C. r. 137, 711 C. 1903 [2] 1442; G. 34 [1] 376 C. 1904 [2] 110).
- 3) 2, 4'-Dichlordiphenylketon. Sm. 66,5—67°; Sd. 214—215°₂₂ (Am. 30, 397 C. 1904 [1] 284).
- $C_{13}H_8OBr_2$ *1) 2, 4'-Dibromdiphenylketon. Sm. 50—52° (Am. 30, 453 C. 1904 [1] 377).
- *3) 4, 4'-Dibromdiphenylketon. Sm. 171—172° (172—173°) (C. r. 137, 710 C. 1903 [2] 1442; Am. 30, 451 C. 1904 [1] 377).
- 4) 3, 5-Dibrom-4-Keto-1-Benzyliden-1, 4-Dihydrobenzol + H_2O . Sm. 135—136° (A. 334, 377 C. 1904 [2] 1051).
- 5) 3, 4'-Dibromdiphenylketon. Sm. 130° (B. 37, 3485 C. 1904 [2] 1131).
- $C_{13}H_8O_2Br_4$ *1) 3, 5, 3', 5'-Tetrabrom-4, 4'-Dioxydiphenylmethan. + $2C_2H_4O_3$ (Sm. 226—227°) (B. 36, 1884 C. 1903 [2] 291; A. 330, 66 C. 1904 [1] 1147).
- $C_{13}H_8O_2J_2$ 3) 3, 4-Dijodphenylester d. Benzolcarbonsäure. Sm. 123° (C. r. 136, 1079 C. 1903 [1] 1339).
- $C_{13}H_8O_3Cl_2$ *2) 4, 4'-Dichlordiphenylester d. Kohlensäure. Sm. 144—145° (C. r. 138, 910 C. 1904 [1] 1412).
- $C_{13}H_8O_6N_4$ C 49,3 — H 2,5 — O 30,4 — N 17,7 — M. G. 316.
- 1) 2, 4, 6-Trinitro-1-Phenylimidomethylbenzol. Sm. 162° (B. 36, 961 C. 1903 [1] 969).
- $C_{13}H_8O_8N_6$ C 45,3 — H 2,3 — O 27,9 — N 24,4 — M. G. 344.
- 1) 6-[2, 4, 6-Trinitrophenyl]amidoindazol. Zers. bei 240° (B. 37, 2582 C. 1904 [2] 659).
- $C_{13}H_8O_7N_2$ 4) 3, 3'-Dinitro-4, 4'-Dioxydiphenylketon. Sm. 172° (G. 34 [1] 385 C. 1904 [2] 111).
- $C_{13}H_8O_8N_6$ 3) 4-Nitrophenyl-2, 4, 6-Trinitrobenzylidenhydrazin. Sm. 247° (B. 36, 961 C. 1903 [1] 969).
- $C_{13}H_8O_9N_6$ *2) 3, 5, 3', 5'-Tetranitro-4, 4'-Diamidodiphenylketon. Sm. 270° (G. 34 [1] 383 C. 1904 [2] 111).
- $C_{13}H_8O_{10}N_6$ C 38,2 — H 2,0 — O 39,2 — N 20,6 — M. G. 408.
- 1) 2, 4, 6-Trinitrophenyl-4-Nitrobenzylnitramin. Sm. 141° u. Zers. (Z. 21, 429 C. 1903 [1] 506).
- $C_{13}H_9ON$ 20) Phenylanthranil. Sm. 52—53° (B. 36, 1615 C. 1903 [2] 36).
- $C_{13}H_9ON_3$ 4) 3-[2-Oxyphenyl]-1, 2, 4-Benzotriazin. Sm. 167° (C. 1903 [2] 427).
- $C_{13}H_9ON_5$ C 62,1 — H 3,6 — O 6,4 — N 27,9 — M. G. 251.
- 1) 4-Benzoylbenzoldiazoniumazid. Zers. bei 116—117° (B. 36, 2058 C. 1903 [2] 356).

- $C_{13}H_9OBr$ 3) 3,5,4'-Tribrom-4-Oxydiphenylmethan. Sm. 88° (*A.* 334, 375 *C.* 1904 [2] 1051).
- $C_{13}H_9O_2N$ *3) 5-Oxy-1-Phenylbenzoxazol. Sm. 217° (*B.* 35, 4202 *C.* 1903 [1] 146).
- 17) $\alpha\beta$ -Diketo- α -Phenyl- β -[2-Pyridyl]äthan. Sm. 78—79°. HCl, Pikrat (*B.* 36, 125 *C.* 1903 [1] 470).
- 18) 3-Oxy-1-Phenylbenzoxazol. Sm. 188—189° (*B.* 37, 3111 *C.* 1904 [2] 995; *B.* 37, 3775 Berichtigung).
- 19) 3-Oxy-5-Keto-5,10-Dihydroakridin. Sm. 327—330° (*C.* 1904 [2] 720).
- $C_{13}H_9O_2N_3$ 13) 7-Semicarbazon-8-Ketoacenaphten. Sm. 192—193° (*G.* 33 [1] 46 *C.* 1903 [1] 882).
- $C_{13}H_9O_2Br$ *5) 4-Bromphenylester d. Benzolcarbonsäure. Sm. 101—102° (*Soe.* 85, 1227 *C.* 1904 [2] 1032).
- $C_{13}H_9O_2J$ 1) 3-Jodphenylester d. Benzolcarbonsäure. Sm. 70° (*A.* 332, 66 *C.* 1904 [2] 42).
- $C_{13}H_9O_3N$ 14) Naphtostyryl-*N*-Methylcarbonsäure (peri-Naphtostyrylessigsäure). Sm. 258—259°. Na, Ag (*B.* 35, 4220 *C.* 1903 [1] 166).
- $C_{13}H_9O_3N_3$ 5) 2-[4-Oxyphenyl]-2,1,3-Benzotriazol-2'-Carbonsäure. Sm. 296—297° (*J. pr.* [2] 67, 583 *C.* 1903 [2] 205).
- 6) 3-Amido-2-Oxy-5,10-Naphtdiazin-7-Carbonsäure. Sm. noch nicht bei 360° (*B.* 36, 4032 *C.* 1904 [1] 294).
- 7) Aldehyd d. 3'-Nitroazobenzol-4-Carbonsäure. Sm. 223° (*Am.* 32, 398 *C.* 1904 [2] 1499).
- 8) Aethylester d. α -Phenyl- γ -Aethylsemicarbazidoessigsäure. Sm. 97 bis 98° (*B.* 36, 3885 *C.* 1904 [1] 27).
- $C_{13}H_9O_3Cl$ *2) 4-Chlordiphenylester d. Kohlensäure. Sm. 95—96° (*C. r.* 138, 910 *C.* 1904 [1] 1412).
- $C_{13}H_9O_3Br$ *1) Phenylester d. 5-Brom-2-Oxybenzol-1-Carbonsäure. Sm. 112° (*G.* 34 [1] 277 *C.* 1904 [1] 1499).
- 6) Phenylester d. 3-Brom-2-Oxybenzol-1-Carbonsäure. Sm. 98° (*G.* 34 [1] 277 *C.* 1904 [1] 1499).
- $C_{13}H_9O_4N$ *14) 3-Nitro-4-Oxydiphenylketon. Sm. 173° (*B.* 36, 3891 *C.* 1904 [1] 93).
- 16) 4-Nitro-2-Oxydiphenylketon. Sm. 111—113° (*Ph. Ch.* 32, 43; *B.* 36, 3897 *C.* 1904 [1] 93).
- 17) 4-Nitro-4'-Oxydiphenylketon. Sm. 190—192° (*B.* 36, 3897 *C.* 1904 [1] 94).
- $C_{13}H_9O_4N_5$ *2) 6-[2,4-Dinitrophenyl]amidoindazol. Sm. 261° (*B.* 37, 2582 *C.* 1904 [2] 659).
- $C_{13}H_9O_4Cl$ 1) 4'-Chlor-2,3,4-Trioxydiphenylketon. Sm. 154—155° (*D. R. P.* 49 149, 50 451). — *III, 156.
- $C_{13}H_9O_5N_3$ 13) 2'-Nitro-4-Oxyazobenzol-3-Carbonsäure. Sm. 215—217° (*J. pr.* [2] 27, 583 *C.* 1903 [2] 204).
- $C_{13}H_9O_6N$ 3) Monobenzoat d. 4-Nitro-1,2,3-Trioxybenzol. Sm. 214° u. Zers. (*B.* 37, 116 *C.* 1904 [1] 585).
- $C_{13}H_9O_6N_5$ 5) Phenyl-2,4,6-Trinitrobenzylidenhydrazin. Sm. 202° (*B.* 36, 960 *C.* 1903 [1] 969).
- $C_{13}H_9O_7N_3$ *6) 5-[2,4-Dinitrophenyl]amido-2-Oxybenzol-1-Carbonsäure (*D. R. P.* 147 862 *C.* 1904 [1] 235).
- $C_{13}H_9O_8N_5$ 2) 2',4', β , β -Tetranitro-2-Methyldiphenylamin. Sm. 190° (*B.* 36, 31 *C.* 1903 [1] 520).
- 3) 2',4', β , β -Tetranitro-4-Methyldiphenylamin. Sm. 219° (*B.* 36, 32 *C.* 1903 [1] 520).
- $C_{13}H_9NCl_2$ 8) 5,10-Dichlor-5,10-Dihydroakridin. Sm. 240° (*Soe.* 85, 1200 *C.* 1904 [2] 1059).
- $C_{13}H_9NBr_2$ 1) 5,10-Dibrom-5,10-Dihydroakridin. Sm. 186—188° (*Soe.* 85, 1200 *C.* 1904 [2] 1059).
- $C_{13}H_9NBr_4$ 3) 5,10-Dibrom-5,10-Dihydroakridindibromid. Sm. 220° u. Zers. (*Soe.* 85, 1200 *C.* 1904 [2] 1059).
- $C_{13}H_9NJ_2$ 1) 5,10-Dijod-5,10-Dihydroakridin. Sm. 145° (*Soe.* 85, 1201 *C.* 1904 [2] 1059).
- $C_{13}H_9NSe$ 1) 5-Selenoakridin. Sm. 238° (*J. pr.* [2] 68, 88 *C.* 1903 [2] 446).
- $C_{13}H_{10}ON_2$ *1) Benzolazobenzoyl. Fl. (*J. pr.* [2] 70, 301 *C.* 1904 [2] 1566).
- *19) Aldehyd d. Azobenzol-4-Carbonsäure (*C. r.* 135, 1116 *C.* 1903 [1] 286).
- 20) Carbonyldiphenylhydrazin (*B.* 36, 3158 *C.* 1903 [2] 1057).

- $C_{13}H_{10}OBr_2$ 3) 4,4'-Dibrom- α -Oxydiphenylmethan. Sm. 115—116° (*Am.* 30, 457 *C.* 1904 [1] 377).
4) 3,5-Dibrom-4-Oxydiphenylmethan. Sm. 44° (u. 57°) (*A.* 334, 374 *C.* 1904 [2] 1050).
- $C_{13}H_{10}OJ_2$ 2) Benzyläther d. 3,4-Dijod-1-Oxybenzol. Fl. (*Bl.* [3] 29, 606 *C.* 1903 [2] 359).
- $C_{13}H_{10}OS$ *2) Phenylester d. Benzolthiolcarbonsäure. Sm. 56° (*Bl.* [3] 29, 764 *C.* 1903 [2] 621).
3) 9-Oxythioxanthen. Sm. 150° (*B.* 34, 3310). — *III, 597.
- $C_{13}H_{10}O_2N_2$ *18) Azobenzol-4-Carbonsäure (*B.* 36, 3009 *C.* 1903 [2] 1031).
*24) Phenylnitrosamid d. Benzolcarbonsäure (*A.* 325, 236 *C.* 1903 [1] 631).
- $C_{13}H_{10}O_2Br_2$ 2) 3,5-Dibrom- α ,4-Dioxydiphenylmethan. Sm. 164—165° (*A.* 334, 379 *C.* 1904 [2] 1051).
3) 3,5-Dibrom-4-Keto-1-[α -Oxybenzyl]-1,4-Dihydrobenzol. Sm. oberh. 137—138° u. Zers. (*A.* 334, 380 *C.* 1904 [2] 1052).
- $C_{13}H_{10}O_3N_2$ 31) Monobenzoat d. 1,4-Dioximido-1,4-Dihydrobenzol. Zers. bei 160° (*G.* 33 [1] 238 *C.* 1903 [1] 1409).
- $C_{13}H_{10}O_3N_4$ 1) α -Nitroso- α -Phenylhydrazon- α -[2-Nitrophenyl]methan. Zers. bei 83,5—84° (*B.* 36, 80 *C.* 1903 [1] 452).
3) α -Nitroso- α -Phenylhydrazon- α -[3-Nitrophenyl]methan. Zers. 98,5° (*B.* 36, 74 *C.* 1903 [1] 452; *B.* 36, 98 *C.* 1903 [1] 453).
4) α -Nitroso- α -Phenylhydrazon- α -[4-Nitrophenyl]methan. Zers. bei 79° (*B.* 36, 78 *C.* 1903 [1] 452).
5) α -[4-Nitrophenyl]- β -[α -Nitrosobenzyliden]hydrazin. Zers. bei 85—86° (*B.* 36, 351 *C.* 1903 [1] 574).
6) α -Oximido- α -Phenylazo- α -[2-Nitrophenyl]methan. Sm. 153,5—154° (*B.* 36, 81 *C.* 1903 [1] 452).
7) α -Oximido- α -Phenylazo- α -[3-Nitrophenyl]methan. Zers. bei 183° (*B.* 36, 72 *C.* 1903 [1] 452).
8) α -Oximido- α -Phenylazo- α -[4-Nitrophenyl]methan. Sm. 180,8° (*B.* 36, 77 *C.* 1903 [1] 452).
9) α -Oximido- α -[4-Nitrophenyl]azo- α -Phenylmethan. Sm. 142,5°. 3 + C_6H_6 (*B.* 36, 357 *C.* 1903 [1] 575).
- $C_{13}H_{10}O_3S$ 2) 4-Oxydiphenylsulfid-3-Carbonsäure? Sm. 168° (*B.* 36, 111 *C.* 1903 [1] 454; *D.R.P.* 147634 *C.* 1904 [1] 131).
- $C_{13}H_{10}O_4N_2$ 25) 3'-Nitrodiphenylamin-2-Carbonsäure. Sm. 215° (*B.* 36, 2384 *C.* 1903 [2] 664).
- $C_{13}H_{10}O_4N_4$ *11) 4-Nitrophenylhydrazonphenylnitromethan (*B.* 36, 355 *C.* 1903 [1] 575).
16) α -Nitro- α -Phenylhydrazon- α -[2-Nitrophenyl]methan. Sm. 146° (*B.* 36, 82 *C.* 1903 [1] 452).
17) α -Nitro- α -Phenylhydrazon- α -[3-Nitrophenyl]methan. Sm. 135° (140,5°) (*B.* 36, 76 *C.* 1903 [1] 452; *B.* 36, 95 *C.* 1903 [1] 453).
18) α -Nitro- α -Phenylhydrazon- α -[4-Nitrophenyl]methan. Sm. 156,5° (*B.* 36, 79 *C.* 1903 [1] 452).
19) α -[4-Nitrophenyl]- β -[2-Nitrobenzyliden]hydrazin. Sm. 250° (*R.* 22, 439 *C.* 1904 [1] 15).
- $C_{13}H_{10}O_5N_2$ 14) 2',2'-Dinitro-2-Methyldiphenyläther. Sm. 98° (*C.* 1903 [1] 634).
15) 4',2'-Dinitro-2-Methyldiphenyläther. Sm. 125° (*C.* 1903 [1] 509).
16) 2',2'-Dinitro-3-Methyldiphenyläther. Sm. 106° (*C.* 1903 [1] 634).
17) 4',2'-Dinitro-3-Methyldiphenyläther. Sm. 103—104° (*Am.* 28, 479 *C.* 1903 [1] 327).
18) 2',2'-Dinitro-4-Methyldiphenyläther. Sm. 100° (*C.* 1903 [1] 634).
19) 4',2'-Dinitro-4-Methyldiphenyläther. Sm. 101° (*C.* 1903 [1] 634).
- $C_{13}H_{10}O_5N_4$ *3) s-Di[3-Nitrophenyl]harnstoff. Sm. 233° (*M.* 25, 388 *C.* 1904 [2] 320).
8) 3,3'-Dinitro-4,4'-Diamidodiphenylketon. Sm. 121° (*G.* 34 [1] 379 *C.* 1904 [2] 111).
- $C_{13}H_{10}O_5S$ 3) 3-Benzolsulfonat d. 3,4-Dioxybenzol-1-Carbonsäurealdehyd. Sm. 147° (*D.R.P.* 76493). — *III, 76.
4) 4-Benzolsulfonat d. 3,4-Dioxybenzol-1-Carbonsäurealdehyd. Sm. 110° (*D.R.P.* 76493, 82747). — *III, 76.
- $C_{13}H_{10}O_6N_4$ *2) 2,4,6-Trinitro-3-Methyldiphenylamin. Sm. 150° (*B.* 37, 2095 *C.* 1904 [2] 34).

- $C_{13}H_{10}O_6N_4$ 4) 2',4',6'-Trinitro-2-Methyldiphenylamin. Sm. 164° (*B.* 36, 31 *C.* 1903 [1] 520).
5) 2',4',6'-Trinitro-2-Methyldiphenylamin. Sm. 158° (*B.* 36, 30 *C.* 1903 [1] 520).
- $C_{13}H_{10}O_7N_4$ 2) 2,4,6-Trinitro-4'-Oxy-3-Methyldiphenylamin. Sm. 207° (*B.* 37, 2095 *C.* 1904 [2] 34).
3) Methyläther d. 2,4,6-Trinitro-3-Oxydiphenylamin. Sm. 178° (*R.* 21, 324 *C.* 1903 [1] 79).
- $C_{13}H_{10}NJ$ 1) Phenyl-4-Jodbenzylidenamin. Sm. 93° (*A.* 332, 75 *C.* 1904 [2] 43).
 $C_{13}H_{10}N_2S$ *6) 1-Phenylamidobenzthiazol. Sm. 159° (*B.* 36, 3127 *C.* 1903 [2] 1070).
 $C_{13}H_{11}ON$ *5) 2-Amidodiphenylketon. Sm. 105° (*B.* 35, 4276 *C.* 1903 [1] 333).
*8) α -Oximidodiphenylmethan. Sm. 143,5—144° (*B.* 36, 704 *C.* 1903 [1] 818).
*12) Formyldiphenylamin. Sm. 72,2°; Sd. 189,5—190,5°₁₃ (*B.* 36, 2477 *C.* 1903 [2] 559).
*20) Phenylamid d. Benzolcarbonsäure. Sm. 161° (*B.* 36, 135 *C.* 1903 [1] 507).
29) 3-Oxy-1-Phenylimidomethylbenzol. Sm. 90,5—91° (92—93°) (*A.* 313, 112; D.R.P. 105006 *C.* 1899 [2] 1078). — *III, 57.
30) 3,5-Diphenylisoxazol. Sm. 142° (*C. r.* 137, 796 *C.* 1904 [1] 43).
31) β -Oxy- α -Phenyl- β -[2-Pyridyl]äthen. Sm. 50—51°. HCl + 2H₂O, (2HCl, PtCl₄), Pikrat (*B.* 36, 122 *C.* 1903 [1] 470).
- $C_{13}H_{11}ON_3$ 14) 2,7-Diamido-9-Oximidofluoren (D.R.P. 52596, 57394). — *III, 177.
15) α -Oximido- α -Phenylazo- α -Phenylmethan (Phenylazobenzaldoxim). Sm. 134—135° (*B.* 36, 63 *C.* 1903 [1] 451).
16) 4-Oximidomethylazobenzol. Sm. 143° (*C. r.* 135, 1117 *C.* 1903 [1] 286).
17) 5-Amido-1-Oxy-2-Phenylbenzimidazol. Sm. 164° (*B.* 37, 2281 *C.* 1904 [2] 434).
18) 6-Methyl-2-Phenyl-1,1-Dihydro-2,1,3-Benztriazol-1-Oxyd. Sm. 142,5° (*B.* 36, 3826 *C.* 1904 [1] 19).
 $C_{13}H_{11}OJ$ 1) α -Oxy-4-Joddiphenylmethan. Sm. 71° (*A.* 332, 78 *C.* 1904 [2] 43).
 $C_{13}H_{11}O_2N$ *8) 4-Nitrodiphenylmethan. Sm. 31°. + AlCl₃ (*R.* 23, 106 *C.* 1904 [1] 1136).
*15) 4-Benzoylamido-1-Oxybenzol. Sm. 212—213° (*B.* 37, 3941 *C.* 1904 [2] 1597).
*33) 2-Phenylamidobenzol-1-Carbonsäure. Sm. 181° (183—184°) (*B.* 36, 2383 *C.* 1903 [2] 664; D.R.P. 145189 *C.* 1903 [2] 1097).
58) α -Imido-2,2'-Dioxydiphenylmethan. Sm. 222° (*A.* 269, 321; *B.* 32, 1678). — III, 195; *III, 153.
59) γ -Keto- γ -[4-Amidophenyl]- α -[2-Furanyl]propen. H₂SO₄ (*B.* 37, 396 *C.* 1904 [1] 658).
60) β -[4-Methyl-2-Chinolyl]akrylsäure. Sm. 214° u. Zers. (2HCl, PtCl₄) (*B.* 37, 1331 *C.* 1904 [1] 1360).
61) Inn. Anhydrid d. Oxyessig-1-Methylamido-2-Naphtyläthersäure (N-Methyl- β -Naphtomorpholon). Sm. 84—85° (*See.* 83, 1419 *C.* 1903 [1] 1419 *C.* 1903 [2] 448).
62) 3-Amidophenylester d. Benzolcarbonsäure (*A.* 332, 65 *C.* 1904 [2] 42).
- $C_{13}H_{11}O_2N_3$ *11) Phenylhydrazonphenylnitromethan. Sm. 101,5—102,5° (*B.* 36, 65 *C.* 1903 [1] 451).
*19) Benzyliden-4-Nitrophenylhydrazin. Sm. 191—192° (*B.* 36, 357 *C.* 1903 [1] 575).
26) Phenyl-4-Nitro-2-Amidobenzylidenamin. Sm. 147° (*B.* 37, 1864 *C.* 1904 [1] 1600).
27) α -Nitroso- α - β -Diphenylharnstoff. Sm. 82° u. Zers. (*A.* 325, 244 *C.* 1903 [1] 631).
28) 2'-Nitro-2-Methylazobenzol. Sm. 108—109° (*B.* 36, 3818 *C.* 1904 [1] 18).
29) 2-Nitro-4-Methylazobenzol. Sm. 71—71,5° (*B.* 36, 3821 *C.* 1904 [1] 18).
30) 2'-Nitro-4-Methylazobenzol. Sm. 88° (*B.* 36, 3819 *C.* 1904 [1] 18).
31) 6-Benzylidenhydrazidopyridin-3-Carbonsäure. Sm. 281° u. Zers. (*B.* 36, 1114 *C.* 1903 [1] 1184).
32) Phenylamid d. 4-Oxyphenylazoameisensäure. Sm. 185—186° (*A.* 334, 167 *C.* 1904 [2] 834).
 $C_{13}H_{11}O_3N$ *36) 4'-Nitro-4-Methyldiphenyläther. Sm. 66°; Sd. 225°₂₅ (*C.* 1903 [1] 634).

- $C_{13}H_{11}O_3N$ 41) 4'-Nitro-2-Methyldiphenyläther. Sd. 220—222°₂₇ (C. 1903 [1] 509).
 42) 4'-Nitro-3-Methyldiphenyläther. Sm. 60—61°; Sd. 230—233°₃₀ (Am. 28, 486 C. 1903 [1] 327).
 43) Phenylamid d. 3,4-Dioxybenzol-1-Carbonsäure. Sm. 154—156°. Bi (Bl. [3] 31, 178 C. 1904 [1] 869; Bl. [3] 31, 920 C. 1904 [2] 773).
- $C_{13}H_{11}O_3N_3$ *11) 4-Nitrophenyl-2-Oxybenzylidenhydrazin. Sm. 225° (R. 22, 439 C. 1904 [1] 15).
 40) 3'-Amido-4-Oxyazobenzol-3-Carbonsäure (D.R.P. 137594 C. 1903 [1] 113).
- $C_{13}H_{11}O_4N$ *18) Phenylamid d. 3,4,5-Trioxybenzol-1-Carbonsäure. BiOH (Bl. [3] 29, 532 C. 1903 [2] 243).
 20) 1-Naphtylamidoessigsäure-8-Carbonsäure. Na₂, Ag₂ (B. 35, 4221 C. 1903 [1] 166).
 21) α -[2-Furanoyl]amido- α -Phenylessigsäure. Sm. 178—179° (B. 37, 2960 C. 1904 [2] 993).
 22) Methylester d. α -Cyan- β -Acetoxy- β -Phenylakrylsäure. Sm. 89° (C. r. 136, 690 C. 1903 [1] 919; Bl. [3] 31, 327 C. 1904 [1] 1135).
 23) Methylester d. α -Cyan- β -Benzoxylcrotonsäure. Sm. 61,5° (C. r. 136, 691 C. 1903 [1] 920).
 24) 1-Phenylamidoformiat d. 1,2,3-Trioxybenzol. Sm. 141° (B. 37, 109 C. 1904 [1] 584).
 25) ϵ -Phenylamid d. β -Oxy- δ -Keto- β -Penten- $\epsilon\epsilon$ -Dicarbonsäure- $\beta\epsilon$ -Lakton (C-Carbanilidotriacetsäurelakton). Sm. 156° (B. 37, 3391 C. 1904 [2] 1221).
- $C_{13}H_{11}O_4N_3$ *4) 2-[2,4-Dinitrophenyl]amido-1-Methylbenzol. Sm. 120° (J. pr. [2] 68, 257 C. 1903 [2] 1064; B. 36, 30 C. 1903 [1] 520).
 *5) 4-[2,4-Dinitrophenyl]amido-1-Methylbenzol. Sm. 131° (J. pr. [2] 68, 256 C. 1903 [2] 1064).
 *10) 2-Nitrophenyl-4-Nitrobenzylamin. Sm. 138° (R. 21, 429 C. 1903 [1] 506).
 *11) Methyl-2,4-Dinitrodiphenylamin. Sm. 167° (J. pr. [2] 68, 255 C. 1903 [2] 1064).
 *16) 4-Nitrophenyl-4-Nitrobenzylamin. Sm. 192° (R. 21, 428 C. 1903 [1] 506).
 18) 3-[2,4-Dinitrophenyl]amido-1-Methylbenzol. Sm. 159° (J. pr. [2] 68, 257 C. 1903 [2] 1064).
 19) 2,4'-Dinitro-3-Methyldiphenylamin. Sm. 161° (B. 36, 31 C. 1903 [1] 520).
- $C_{13}H_{11}O_5N_3$ *3) 5-[4-Nitro-2-Amidophenyl]amido-2-Oxybenzol-1-Carbonsäure. (D.R.P. 139679 C. 1903 [1] 748).
 6) Methyläther d. 4,6-Dinitro-2-Oxydiphenylamin. Sm. 155° (R. 23, 114 C. 1904 [2] 205).
 7) Methyläther d. 4,6-Dinitro-3-Oxydiphenylamin. Sm. 168° (R. 23, 121 C. 1904 [2] 206).
 8) Nitroamidooxydiphenylamin-carbonsäure. Na (D. R. P. 148341 C. 1904 [1] 415).
- $C_{13}H_{11}O_6N_3$ 3) 2,4,6-Trinitro-4'-Amido-3-Methyldiphenylamin. Sm. 198,5° (B. 37, 2096 C. 1904 [2] 34).
 4) 2,4,6-Trinitro-3-Methylamidodiphenylamin. Sm. 174° (R. 21, 325 C. 1903 [1] 80).
- $C_{13}H_{11}NS$ *3) Phenylamid d. Benzolthiocarbonsäure. Sm. 101,5—102° (B. 36, 587 C. 1903 [1] 830).
 6) Thiobenzimidophenyläther. Sm. 48°. HCl (B. 36, 3465 C. 1903 [2] 1243).
- $C_{13}H_{11}N_2Cl$ 8) α -Imido- α -[4-Chlorphenyl]amido- α -Phenylmethan. Sm. 115—116°. (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (J. pr. [2] 67, 450 C. 1903 [1] 1421).
 9) 2-Chlorbenzylidenphenylhydrazin. Sm. 86° (C. 1903 [2] 427).
- $C_{13}H_{11}BrJ_2$ 1) 3'-Brom-4-Methyldiphenyljodoniumjodid. Sm. 139° u. Zers. (J. pr. [2] 69, 329 C. 1904 [2] 36).
- $C_{13}H_{11}Br_2J$ 1) 3'-Brom-2-Methyldiphenyljodoniumbromid. Sm. 185° (J. pr. [2] 69, 331 C. 1904 [2] 36).
 2) 3'-Brom-4-Methyldiphenyljodoniumbromid. Sm. 175° (J. pr. [2] 69, 329 C. 1904 [2] 36).
- $C_{13}H_{12}ON_2$ *2) s-Diphenylharnstoff. Sm. 235° (M. 25, 376 C. 1904 [2] 320).

- $C_{13}H_{12}ON_2$ *20) 2-Oxybenzylidenphenylhydrazin. Sm. 142°; Sd. 234°₂₈ (B. 36, 580 C. 1903 [1] 709).
- *23) 4-Oxybenzylidenphenylhydrazin. Sm. 184° (B. 36, 3974 C. 1904 [1] 163).
- *49) β -Phenylhydrazid d. Benzolcarbonsäure (C. 1903 [1] 829).
- 59) 2-Oxymethylazobenzol. Sm. 77—78° (C. r. 136, 1136 C. 1903 [1] 1416).
- 60) Methyläther d. 3-Oxazobenzol. Sm. 32,5—33,5°; Sd. 193—193,5°₁₈. (2HCl, PtCl₄) (B. 36, 4099 C. 1904 [1] 270).
- 61) Farbstoff (aus 4-Amido-1-Oxybenzol u. 2-Amido-1-Methylbenzol) (J. pr. [2] 69, 172 C. 1904 [1] 1268).
- 62) Verbindung (aus α -Nitroso- β -[2-Amidobenzoyl]- α -Phenylhydrazin). Sm. 206° (J. pr. [2] 69, 104 C. 1904 [1] 730).
- $C_{13}H_{12}OS$ 4) 4'-Oxy-4-Methyldiphenylsulfid. Fl. (D.R.P. 147634 C. 1904 [1] 131).
- 5) Methyläther d. 4-Oxydiphenylsulfid. Sd. 180—185°₁₂ (B. 36, 109 C. 1903 [1] 454; D.R.P. 147634 C. 1904 [1] 131).
- $C_{13}H_{12}O_2N_2$ *3) 2-Oxy-1-Phenylnitrosamidomethylbenzol. K (A. 325, 247 C. 1903 [1] 632).
- *10) Phenyl-4-Nitrobenzylamin (Am. 30, 107 C. 1903 [2] 718).
- 53) 3,5-Diacetyl-4-Phenylpyrazol. Sm. 134° (A. 325, 186 C. 1903 [1] 647).
- 54) 3-Acetyl-5-Benzoyl-4-Methylpyrazol. Sm. 97° (A. 325, 190 C. 1903 [1] 647).
- $C_{13}H_{12}O_2N_4$ 30) 6-Nitro-3-Amido-1-Phenylhydrazonmethylbenzol. Sm. 212° (M. 24, 8 C. 1903 [1] 775).
- 31) 3-Nitro-4-Amido-1-Phenylhydrazonmethylbenzol. Sm. 202° (M. 24, 93 C. 1903 [1] 921).
- 32) α -Nitroso- β -[2-Amidobenzoyl]- α -Phenylhydrazin. Zers. bei 78° (J. pr. [2] 69, 103 C. 1904 [1] 730).
- $C_{13}H_{12}O_2S$ *2) Phenyl-4-Methylphenylsulfon. Sm. 124° (B. 35, 4275 Ann. C. 1903 [1] 332).
- $C_{13}H_{12}O_3N_2$ 35) Aethylester d. α -Cyan- α -Imido- γ -Ketobutan- β -Carbonsäure. Sm. 142,5° (A. 332, 148 C. 1904 [2] 192).
- 36) Aethylester d. β -Cyan- β -Imido- α -Benzoylpropionsäure (Z. Kr. 33, 88). — *II, 1174.
- 37) Benzoat d. Verbindung $C_6H_5O_2N_2$. Sm. 180—181° (G. 34 [1] 47 C. 1904 [1] 1150).
- $C_{13}H_{12}O_3N_4$ 3) 2-Phenyl-1,2,3,4-Tetrazin-6-Dimethylmalonsäure. Sm. 163—164°. Ca, Ba (Soc. 83, 1253 C. 1903 [2] 1422).
- $C_{13}H_{12}O_3S$ 5) α -[1-Naphtyl]sulfon- β -Ketopropan. Sm. 65° (J. pr. [2] 55, 415). — *II, 509.
- 6) α -[2-Naphtyl]sulfon- β -Ketopropan. Sm. 130° (J. pr. [2] 55, 399). — *II, 528.
- 7) Verbindung (aus $\beta\gamma$ -Dibrompropyl-1-Naphtylsulfon). Sm. 127° (J. pr. [2] 55, 215). — *II, 509.
- 8) Verbindung (aus $\beta\gamma$ -Dibrompropyl-2-Naphtylsulfon). Sm. 167° (J. pr. [2] 53, 488; [2] 55, 216). — *II, 528.
- $C_{13}H_{12}O_4N_4$ *5) 2,2'-Dinitro-4,4'-Diamidodiphenylmethan (D.R.P. 139989 C. 1903 [1] 798).
- *6) 4-[2,4-Dinitrophenyl]amido-2-Amido-1-Methylbenzol. Sm. 183 bis 184° (J. pr. [2] 68, 258 C. 1903 [2] 1064).
- 11) 4,6-Dinitro-4'-Amido-3-Methyldiphenylamin. Sm. 166° (B. 37, 2094 C. 1904 [2] 34).
- $C_{13}H_{12}O_4N_8$ C 45,3 — H 3,5 — O 18,6 — N 32,6 — M. G. 344.
- 1) Azid d. α -Benzoylamidoacetylamidoäthan- α - β -Dicarbonsäure. Sm. 76° (J. pr. [2] 70, 177 C. 1904 [2] 1396).
- $C_{13}H_{12}O_5N_2$ 2) Nitril d. β -Oxy- γ -Keto- α -[4-Nitrophenyl]- β -Acetylbutan- α -Carbonsäure. Sm. 161—162° (B. 36, 3229 C. 1903 [2] 941).
- $C_{13}H_{12}O_5N_4$ 2) Säure (aus d. Verb. $C_{13}H_{10}O_5N_4$) (A. 331, 313 C. 1904 [2] 46).
- $C_{13}H_{12}O_5N_2$ C 53,4 — H 4,1 — O 32,9 — N 9,6 — M. G. 292.
- 1) Aethylester d. 4,5-Diketo-2-[3-Nitrophenyl]tetrahydropyrrol-3-Carbonsäure. Zers. bei 173°. NH_4 (C. r. 138, 979 C. 1904 [1] 1415).
- $C_{13}H_{12}O_6N_4$ 6) Methylamidobenzol + 1,3,5-Trinitrobenzol. Sm. 81—82° (Soc. 83, 1341 C. 1904 [1] 100).

- $C_{13}H_{12}O_8N_2$ *1) Aethylester d. α -[3,5-Dinitrobenzoyl]acetessigsäure. Sm. 88—89° (*J. pr.* [2] 69, 458 *C.* 1904 [2] 595).
- $C_{13}H_{12}N_2Cl_2$ 1) Di[2-Chlorphenylamido]methan. Sm. 84° (*B.* 36, 45 *C.* 1903 [1] 504).
 2) Di[3-Chlorphenylamido]methan. Sm. 73° (*B.* 36, 46 *C.* 1903 [1] 505).
 3) Di[4-Chlorphenylamido]methan. Sm. 65° (*B.* 36, 46 *C.* 1903 [1] 505).
- $C_{13}H_{12}N_2S$ *1) s-Diphenylthioharnstoff. Sm. 154—155° (*B.* 36, 3846 *C.* 1904 [1] 89; *B.* 37, 158 *C.* 1904 [1] 582; *C. r.* 139, 451 *C.* 1904 [2] 1114).
- $C_{13}H_{12}N_3Cl$ 8) α -Phenyl- β -[4-Chlor-2-Amidobenzyliden]hydrazin. Sm. 230° (*B.* 37, 1873 *C.* 1904 [1] 1602).
- $C_{13}H_{12}ClIJ$ 3) Phenyl-3-Methylphenyljodoniumchlorid. Sm. 213°. + $HgCl_2$, 2 + $PtCl_4$ (*A.* 327, 276 *C.* 1903 [2] 350).
- $C_{13}H_{12}BrJ$ 1) Phenyl-3-Methylphenyljodoniumbromid. Sm. 193° (*A.* 327, 276 *C.* 1903 [2] 350).
- $C_{13}H_{13}ON$ *37) 4'-Amido-4-Methyldiphenyläther. Sm. 122°. HCl , (2 HCl , $PtCl_4$ + H_2O), HBr (*C.* 1903 [1] 634).
 42) 4'-Amido-2-Methyldiphenyläther. Sm. 60°. HCl , (2 HCl , $PtCl_4$), HBr , H_2SO_4 (*C.* 1903 [1] 509).
 43) 4'-Amido-3-Methyldiphenyläther. HCl (*Am.* 28, 488 *C.* 1903 [1] 327).
 44) β -Oxy- α -Phenyl- α -[4-Pyridyl]äthan. Sm. 89—90°. (2 HCl , $PtCl_4$) (*J. pr.* [2] 69, 317 *C.* 1904 [1] 1613).
 45) *N*-Methyl- β -Naphtomorpholin. Sd. 220—222°₄₀. Camphersulfonat (*Soc.* 83, 762 *C.* 1903 [1] 1419 *C.* 1903 [2] 448).
 46) Dimethylamid d. Naphtalin-1-Carbonsäure. Sm. 62°; Sd. 207° bis 208°₁₅ (*B.* 37, 2685 *C.* 1904 [2] 522; *B.* 37, 2817 *C.* 1904 [2] 649).
- $C_{13}H_{13}ON_3$ *4) β -Phenylamido- α -Phenylharnstoff. Sm. 176° (*B.* 36, 1368 *C.* 1903 [1] 1342; *J. pr.* [2] 67, 263 *Anm.* *C.* 1903 [1] 1266).
 22) α -Amido- $\alpha\beta$ -Diphenylharnstoff. Sm. 165° (165,5°). HCl , (2 HCl , $PtCl_4$) (*B.* 36, 1361 *C.* 1903 [1] 1340; *B.* 36, 1366 *C.* 1903 [1] 1342).
 23) α -Oximido- α -Amido- α -Diphenylamidomethan. Sm. 161°. HCl , Pikrat (*B.* 36, 3662 *C.* 1903 [2] 1325).
 24) α -Nitroso- α -Diphenylmethylhydrazin. Sm. 92—93° (*J. pr.* [2] 63, 136 *C.* 1903 [1] 875).
 25) 4-Oxy-1-[2-Methylphenylamido]diazobenzol (*B.* 36, 4148 *C.* 1904 [1] 186).
 26) 4-Oxy-1-[4-Methylphenylamido]diazobenzol. Zers. bei 63° (*B.* 36, 4147 *C.* 1904 [1] 186).
 27) Methyläther d. 4-Amido-3-Oxyazobenzol. Sm. 110,5—111,5° (*B.* 36, 4096 *C.* 1904 [1] 270).
- $C_{13}H_{13}ON_6$ C 61,2 — H 5,1 — O 6,2 — N 27,4 — M. G. 255.
 1) Amid d. 1-[Methyl- α -Carboxyäthylamido]-4-Dicyanmethylenamido-benzol. Sm. 244,5° (*B.* 36, 762 *C.* 1903 [1] 963).
- $C_{13}H_{13}OJ$ 3) Phenyl-3-Methylphenyljodoniumoxyhydrat. Salze siehe (*A.* 327, 274 *C.* 1903 [2] 350).
- $C_{13}H_{13}O_2N$ 47) 2'-Amido-2,4-Dioxydiphenylmethan. Sm. 158—159°. H_2SO_4 (*M.* 23, 985 *C.* 1903 [1] 289).
 48) 4'-Amido-2,4-Dioxydiphenylmethan. Sm. 160—161° (*M.* 23, 979 *C.* 1903 [1] 288).
 49) $\alpha\beta$ -Dioxy- α -Phenyl- β -[2-Pyridyl]äthan. Sm. 144—145°. HCl + 2 H_2O , (2 HCl , $PtCl_4$), Pikrat (*B.* 36, 120 *C.* 1903 [1] 470).
 50) 8-Acetyl-1,2,3,4-Tetrahydronaphtostyryl. Sm. 103—104° (*B.* 35, 4224 *C.* 1903 [1] 166).
 51) 1,2,3,4-Tetrahydrocarbazol-3-Carbonsäure (*Soc.* 85, 428 *C.* 1904 [1] 1439).
 52) Phenylimid d. β -Penten- $\beta\gamma$ -Dicarbonsäure. Sd. 184°₁₄ (*B.* 37, 1617 *C.* 1904 [1] 1403).
- $C_{13}H_{13}O_3N_3$ 12) 2-Nitro-4,4'-Diamidodiphenylmethan. Sm. 100—101° (*D.R.P.* 139989 *C.* 1903 [1] 798).
 13) β -[4-Oxyphenyl]amido- α -Phenylharnstoff. Sm. 207° u. Zers. (*A.* 334, 169 *C.* 1904 [2] 834).
 14) s-Dioxydiphenylguanidin. Sm. 135° u. Zers. (*B.* 37, 1539 *C.* 1904 [1] 1411).
- $C_{13}H_{13}O_3N$ *22) Aethylester d. α -Cyan- β -Oxy- β -Phenylakrylmethyläthersäure. Sm. 101,5° (*C. r.* 136, 691 *C.* 1903 [1] 920).

- $C_{13}H_{13}O_3N$ 28) 2'-Amido-2,4,6-Trioxydiphenylmethan. HCl (*M.* 23, 986 *C.* 1903 [1] 289).
- $C_{13}H_{13}O_3N_3$ *5) Aethylester d. Acetylphenylhydrazoncyanessigsäure. α -Modif. Sm. 158°; β -Modif. Sm. 166° (*J. pr.* [2] 67, 403 *C.* 1903 [1] 1346).
- 11) 1-Semicarbazon-3-Methylinden-2-Methylcarbonsäure. Sm. 218 bis 219° u. Zers. (*B.* 37, 1621 *C.* 1904 [1] 1419).
- 12) Lakton d. 3-Semicarbazon-1-Oxy-1-Methyl-2,3-Dihydroinden-2-Methylcarbonsäure. Sm. 258—259° u. Zers. (*B.* 37, 1622 *C.* 1904 [1] 1419).
- 13) Phenylamidoformiat d. Verb. $C_6H_5O_2N_2$. Sm. 178—180° (*G.* 34 [1] 48 *C.* 1904 [1] 1150).
- $C_{13}H_{13}O_3P$ 5) Säure (aus Diphenylketon). Sm. 150—151°. Pb, Ag (*C. r.* 136, 509 *C.* 1903 [1] 773).
- $C_{13}H_{13}O_4N$ *15) Aethylester d. α -Phtalylamidopropionsäure. Sm. 65° (*M.* 25, 774 *C.* 1904 [2] 1121).
- 21) Aethylester d. 4,5-Diketo-2-Phenyltetrahydropyrrol-3-Carbonsäure. Zers. bei 185°. NH_4 , K, Cu + $2C_2H_5O_3$, Ag (*C. r.* 138, 977 *C.* 1904 [1] 1415).
- $C_{13}H_{13}O_4N_3$ 4) Acetat d. 4-[β -Oximido- β -Phenyläthyl]-1,2,3,6-Dioxdiazin. Sm. 146—147° (*A.* 330, 245 *C.* 1904 [1] 946).
- $C_{13}H_{13}O_4P$ 1) Säure (aus d. Säure $C_{13}H_{13}O_3P$). Sm. 184—185° (*C. r.* 136, 509 *C.* 1903 [1] 773).
- $C_{13}H_{13}O_5N$ *2) Aethylester d. γ -Keto- α -[3-Nitrophenyl]- α -Buten- β -Carbonsäure. Sm. 110° (*Soc.* 83, 719 *C.* 1903 [2] 54).
- 8) α -[4-Aethoxyphthalyl]amidopropionsäure. Sm. 146° (*B.* 37, 1978 *C.* 1904 [2] 236).
- 9) Aethylester d. 4,5-Diketo-2-[2-Oxyphenyl]tetrahydropyrrol-3-Carbonsäure. Zers. bei 175°. NH_4 (*C. r.* 138, 979 *C.* 1904 [1] 1415).
- $C_{13}H_{13}O_5N_3$ C 53,6 — H 4,5 — O 27,5 — N 14,4 — M. G. 291.
- 1) β -Acetat d. 4-[β -Oximido- β -4-Oxyphenyläthyl]-1,2,3,6-Dioxdiazin-4-Methyläther. Sm. 168—169° (*A.* 330, 243 *C.* 1904 [1] 945).
- $C_{13}H_{13}O_6N$ *2) Aethylester d. 2-Nitrobenzoylacettessigsäure (*Soc.* 85, 151 *C.* 1904 [1] 724).
- $C_{13}H_{13}O_7N$ *2) Acetonynitromekonin (*B.* 36, 2208 *C.* 1903 [2] 443).
- $C_{13}H_{13}O_8N$ C 50,2 — H 4,2 — O 41,1 — N 4,5 — M. G. 311.
- 1) Triacetat d. 3-Nitro-2-Oxy-1-Dioxymethylbenzol. Sm. 110° (*B.* 20, 2110; *B.* 37, 3931 *C.* 1904 [2] 1595). — III, 70.
- 2) Triacetat d. 5-Nitro-2-Oxy-1-Dioxymethylbenzol. Sm. 112° (114—115°) (*B.* 20, 2110; *B.* 37, 3931 *C.* 1904 [2] 1595). — III, 70.
- $C_{13}H_{13}NS$ *1) 4'-Amido-4-Methyldiphenylsulfid. Sm. 72°; Sd. 365° u. ger. Zers. HCl, (2HCl, PtCl₄), HNO₃, H₂SO₄, Oxalat (*J. pr.* [2] 68, 265 *C.* 1903 [2] 992).
- $C_{13}H_{13}N_3S$ *5) α -Amido- $\alpha\beta$ -Diphenylthioharnstoff. HCl (*B.* 37, 2331 *C.* 1904 [2] 313).
- $C_{13}H_{14}ON_2$ *1) α -Oxy- β -Diamidodiphenylmethan (*C.* 1903 [2] 442).
- *8) Methyläther d. 4,4'-Diamido-2-Oxybiphenyl. Sm. 103—103,5°. 2HCl, Pikrat (*B.* 36, 4076 *C.* 1904 [1] 267).
- 38) 4-Amido-4'-Oxy-3-Methyldiphenylamin. Sm. 160° (D.R.P. 139204 *C.* 1903 [1] 608; *J. pr.* [2] 69, 173 *C.* 1904 [1] 1268).
- 39) 1-Benzoylamido-2,5-Dimethylpyrrol. Sm. 177—179° (*B.* 35, 4319 *C.* 1903 [1] 336).
- $C_{13}H_{14}ON_4$ 7) 3,4,3',4'-Tetraamidodiphenylketon. Sm. 155° (*G.* 34 [1] 380 *C.* 1904 [2] 111).
- 8) Methyloxydhydrat d. 2,3-Diamido-5,10-Naphtdiazin. Nitrat (*A.* 327, 119 *C.* 1903 [1] 1214).
- $C_{13}H_{14}O_2N_2$ 34) Säure (aus Diacetopropionsäureäthylester u. essigsaurem Phenylhydrazin). Sm. 210° u. Zers. Ag + H₂O (*B.* 37, 2194 *C.* 1904 [2] 240).
- 35) Methyl ester d. α -Cyan- β -Aethylamido- β -Phenylakrylsäure. Sm. 123° (*C. r.* 136, 691 *C.* 1903 [1] 920).
- 36) Aethylester d. α -Cyan- β -Methylamido- β -Phenylakrylsäure. Sm. 104 bis 105° (*Bl.* [3] 31, 343 *C.* 1904 [1] 1135).
- $C_{13}H_{14}O_3N_2$ 24) 3-Cyanphenylmonamid d. Bernsteinsäuremonoäthylester. Sm. 84 bis 84,5° (*C.* 1904 [2] 103).

- $C_{13}H_{14}O_3N_4$ C 56,9 — H 5,1 — O 17,5 — N 20,4 — M. G. 274.
 1) Methylester d. 5-Acetylamido-1-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 81° (B. 35, 4059 C. 1903 [1] 171).
- $C_{13}H_{14}O_4N_2$ 7) Cinnamoylamidoacetylamidoessigsäure. Sm. 229—230° (B. 37, 3067 C. 1904 [2] 1207).
 8) Aethylester d. 2,5-Diketo-1-Phenyltetrahydroimidazol-4-Methylcarbonsäure. Sm. 122° (B. 36, 3342 C. 1903 [2] 1175).
- $C_{13}H_{14}O_4N_6$ *) 1) Azid d. Benzoylbis[Amidoacetyl]amidoessigsäure. Sm. 162° (J. pr. [2] 70, 84 C. 1904 [2] 1033).
- $C_{13}H_{14}O_6N_2$ C 53,1 — H 4,8 — O 32,6 — N 9,5 — M. G. 294.
 1) α -Benzoylamidoacetylamidoäthan- α - β -Dicarbonsäure (Hippurylasparaginsäure). Sm. 191° (NH₃), Ba, Cu + 3H₂O, Ag₂ (J. pr. [2] 70, 168 C. 1904 [2] 1396).
- $C_{13}H_{14}O_7N_2$ C 50,3 — H 4,5 — O 36,1 — N 9,0 — M. G. 310.
 1) Lakton d. γ -Oximido- α -Oxy- α -[6-Nitro-3,4-Dimethoxyphenyl]-butan-2-Carbonsäure (Oxim d. Acetonylnitromekonin). Sm. 170° (B. 36, 2209 C. 1903 [2] 443).
- $C_{13}H_{11}N_2Br_2$ 1) 2-Bromallylat d. 5-Brom-3-Methyl-1-Phenylpyrazol. Sm. 196° (A. 331, 211 C. 1904 [1] 1219).
- $C_{13}H_{11}N_2J_2$ 1) 2-Jodallylat d. 5-Jod-3-Methyl-1-Phenylpyrazol. Sm. 203° (A. 331, 212 C. 1904 [1] 1219).
- $C_{13}H_{11}N_2S$ 2) Allyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sm. 56—57°; Sd. 184—188°₁₁ (A. 331, 237 C. 1904 [1] 1221).
 3) 3-Thiocarbonyl-5-Methyl-1-Allyl-2-Phenyl-2,3-Dihydropyrazol (Allylthiopyrin). Sm. 123° (A. 331, 213 C. 1904 [1] 1219).
- $C_{13}H_{15}ON$ 20) 2-Methyläthylamido-1-Oxynaphtalin. Sm. 25—27°; Sd. 193°₄₀. HJ, Camphersulfonat + H₂O (Soc. 83, 761 C. 1903 [1] 1419 C. 1903 [2] 448).
 21) 3-Keto-1-Isocamylpseudoisindol. Sm. 115° (C. r. 138, 988 C. 1904 [1] 1446).
- $C_{13}H_{15}ON_3$ 3) ε -Semicarbazon- α -Phenyl- $\alpha\gamma$ -Hexadiën. Sm. 186° (B. 36, 4381 C. 1904 [1] 455).
- $C_{13}H_{15}O_2N$ *) 16) Phenylimid d. mal. Pentan- $\beta\delta$ -Dicarbonsäure. Sm. 207° (Bl. [3] 29, 1019 C. 1903 [2] 1315).
 *) 22) Phenylimid d. β -Methylbutan- $\gamma\delta$ -Dicarbonsäure. Sm. 88° (B. 36, 1751 C. 1903 [2] 117).
 41) δ -Oximido- γ -Keto- α -[4-Isopropylphenyl] α -Buten. Sm. 162—163° (C. 1904 [1] 28; A. 330, 254 C. 1904 [1] 946).
 42) 2-Keto-1-Acetyl-3-Isopropyl-2,3-Dihydroindol. Sm. 104° (M. 24, 574 C. 1903 [2] 887).
 43) 4-Methyl-2-[$\beta\beta'$ -Dioxyisopropyl]chinolin. Sm. 140°. HCl, (2HCl, PtCl₄ + H₂O) (B. 37, 1329 C. 1904 [1] 1360).
 44) 4-Oxy-1-Keto-3-Isobutyl-1,2-Dihydroisochinolin. Sm. 171—173° (B. 37, 1695 C. 1904 [1] 1525).
 45) Aethyläther d. 6-Oxy-2-Keto-1-Aethyl-1,2-Dihydrochinolin. Sm. 84° (B. 36, 458 C. 1903 [1] 590).
 46) d-sec. Amylimid d. Benzol-1,2-Dicarbonsäure. Sm. 23°; Sd. 303° (B. 37, 1047 C. 1904 [1] 1249).
 47) Benzoat d. d-3-Oximido-1-Methyl-R-Pentamethylen. Sm. 60—61° (A. 332, 349 C. 1904 [2] 653).
 48) Isoamylimid d. Benzol-1,2-Dicarbonsäure. Sm. 12,5°; Sd. 307 bis 308° (B. 23, 998; B. 37, 1047 C. 1904 [1] 1249). — II, 1804.
- $C_{13}H_{15}O_2N_3$ *) 10) Aethylester d. 2,4-Dimethylphenylhydrazoncyanessigsäure. Sm. 166° (J. pr. [2] 67, 409 C. 1903 [1] 1347).
 15) Acetat d. 5-Oxy-3-Propyl-1-Phenyl-1,2,4-Triazol. Sm. 84° (B. 36, 1099 C. 1903 [1] 1140).
 16) Nitril d. 2,6-Diketo-4-Hexyl-1,2,3,6-Tetrahydropyridin-3,5-Dicarbonsäure. NH₄, Nikotinsalz (C. 1903 [2] 193).
 17) Verbindung (aus Benzylidenacetylaceton u. Semicarbazid). Sm. 210° u. Zers. (Soc. 85, 467 C. 1904 [1] 1080, 1438).
- $C_{13}H_{15}O_2Cl$ 1) Aethylester d. β -Chlor- α -Phenyl- β -Buten- α -Carbonsäure. Sd. 159 bis 161°₁₈ (B. 36, 2245 C. 1903 [2] 435).
- $C_{13}H_{15}O_3N$ 20) Dimethyläther d. 6,7-Dioxy-1-Keto-2-Aethyl-1,2-Dihydroisochinolin. Sm. 60—62°. HCl (B. 37, 3402 C. 1904 [2] 1318).

- C₁₃H₁₅O₃N** 21) 8-Acetylamido-1,2,3,4-Tetrahydronaphtalin-1-Carbonsäure. Sm. 181—182° (*B.* 35, 4224 *C.* 1903 [1] 166).
- 22) γ -Phenylamid d. β -Oxy- β -Methylbutan- γ - δ -Dicarbonsäure- β - δ -Lakton. Sm. 176° (*C. r.* 139, 293 *C.* 1904 [2] 692).
- 23) α -Phenylmonamid d. cis- γ -Methyl- α -Buten- α - γ -Dicarbonsäure. Sm. 162° (164° u. Zers.) (*C. r.* 136, 352 *C.* 1903 [1] 697; *Soc.* 83, 15 *C.* 1903 [1] 443).
- 24) 4-Methylphenylmonamid d. α -Buten- β - δ -Dicarbonsäure. Sm. 154 bis 155° (*B.* 36, 1203 *C.* 1903 [1] 1175).
- 25) 4-Aethoxyphenylimid d. Propan- α - β -Dicarbonsäure. Sm. 97° (*G.* 34 [2] 272 *C.* 1904 [2] 1454).
- C₁₃H₁₅O₃N₃** 5) 4-[β -Oximido- β -4-Isopropylphenyläthyl]-1,2,3,6-Dioxiazin. Sm. 187° (*A.* 330, 244 *C.* 1904 [1] 946).
- 6) Verbindung (aus Dicyanbenzoylessigsäureäthylester). Sm. 176° (*A.* 332, 150 *C.* 1904 [2] 192).
- C₁₃H₁₅O₃N₅** C 54,0 — H 5,2 — O 16,6 — N 24,2 — M. G. 289.
- 1) Azid d. β -Benzoylamidoacetylamidoacetylbuttersäure. Zers. bei 73° (*J. pr.* [2] 70, 212 *C.* 1904 [2] 1460).
- 2) Azid d. α -[α -Benzoylamidopropionyl]amidopropionsäure (*J. pr.* [2] 70, 151 *C.* 1904 [2] 1394).
- C₁₃H₁₅O₄N** 17) Dimethylester d. cis-1-[β -Amidophenyl]-*R*-Trimethylen-trans-2,3-Dicarbonsäure. HCl (*B.* 36, 3781 *C.* 1904 [1] 42).
- C₁₃H₁₅O₄N₇** C 46,8 — H 4,5 — O 19,2 — N 29,4 — M. G. 333.
- 1) Azid d. β -Phenylureidoacetylamidoacetylamidoessigsäure. (*J. pr.* [2] 70, 262 *C.* 1904 [2] 1465).
- C₁₃H₁₅O₅N** 17) α -Benzoylamidobutan- α - δ -Dicarbonsäure (*C.* 1903 [2] 34).
- 18) Diäthylester d. Phenylamin-*N*-Carbonsäure-*N*-Ketocarbonsäure. Sm. 68°; Sd. 188—190°₂₋₃ (*B.* 37, 3683 *C.* 1904 [2] 1495).
- 19) β -Benzylamid d. i- α -Acetoxyäthan- α - β -Dicarbonsäure. Sm. 111° (*B.* 37, 2126 *C.* 1904 [2] 439).
- C₁₃H₁₅O₅N₃** *7) Benzoylbis[Amidoacetyl]amidoessigsäure. Sm. 215—216°. Ag (*J. pr.* [2] 70, 81 *C.* 1904 [2] 1033).
- C₁₃H₁₅O₅Br** 1) Phenolbromglykosid. Sm. 170—180° (*C.* 1903 [2] 1446).
- C₁₃H₁₅O₆N** 11) Methylester d. β -Nitro- γ -Acetoxy- γ -Phenylbuttersäure. Sm. 89° (*A.* 329, 253 *C.* 1904 [1] 31).
- 12) Dimethylester d. Iso- β -[2-Nitrophenyl]propan- α - γ -Dicarbonsäure. Sm. 63,5° (*B.* 36, 2673 *C.* 1903 [2] 948).
- C₁₃H₁₅N₂Br** 1) Brom-4-Dimethylamidophenylat d. Pyridin (*J. pr.* [2] 70, 51 *C.* 1904 [2] 1236).
- C₁₃H₁₆ON₂** *15) 5-Keto-4-Methyl-3-Propyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 100° (*Bl.* [3] 27, 1102 *C.* 1903 [1] 227).
- 19) 4-Dimethylamidophenylhydroxyd d. Pyridin. Salze siehe (*J. pr.* [2] 70, 51 *C.* 1904 [2] 1236).
- 20) Nitril d. α -[2-Oxyphenyl]- α -[1-Piperidyl]essigsäure. Sm. 89—90° (*B.* 37, 4086 *C.* 1904 [2] 1724).
- C₁₃H₁₆O₂N₂** 24) γ - δ -Dioximido- α -[4-Isopropylphenyl]- α -Buten. Sm. 192° u. Zers. (*C.* 1904 [1] 28; *A.* 330, 255 *C.* 1904 [1] 946).
- 25) Phenylhydantoin d. d-Isoleucin. Sm. 78—79° (*B.* 37, 1830 *C.* 1904 [1] 1645).
- 26) Nitril d. α -Diäthylamido- α -[3,4-Dioxyphenyl]essig-3,4-Methylenäthersäure. Sm. 43—44°; Sd. 179,5°_{12,5} (*B.* 37, 4091 *C.* 1904 [2] 1725).
- 27) Amid d. α -Cyan- β -[4-Isopropylphenyl]propionsäure. Sm. 144° (*A.* 325, 217 *C.* 1903 [1] 439).
- C₁₃H₁₆O₂N₄** 2) Amid d. 3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyridin-4-Amidoessigsäure. Sm. 194—195° (*Bl.* [3] 29, 967 *C.* 1903 [2] 1118).
- C₁₃H₁₆O₂Br₂** 2) Isobutylester d. α - β -Dibrom- β -Phenylpropionsäure. Sm. 59—60° (*Soc.* 83, 677 *C.* 1903 [2] 115).
- C₁₃H₁₆O₃N₃** *13) Phenylmonamid d. β -Imidopropan- α - α -Dicarbonsäuremonoäthylester. Sm. 125—126° (*A.* 329, 345 *C.* 1904 [1] 435).
- 16) 3-Nitro-4-Methylphenylamid d. α -Penten- α -Carbonsäure. Sm. 87° (*B.* 37, 2000 *C.* 1904 [2] 24).
- 17) Verbindung (aus Oxybenzol u. Harnstoff). Sm. 61° (*J.* 1886, 548). — II, 651.

- $C_{13}H_{16}O_4N_2$ *5) Aethylester d. Benzoylamidoacetylamidoessigsäure. Sm. 117° (*J. pr.* [2] 70, 77 *C.* 1904 [2] 1033; *J. pr.* [2] 70, 194 *C.* 1904 [2] 1398).
- 11) β -Benzoylamidoacetylamidobuttersäure. Sm. 122°. NH_4 , Ag (*J. pr.* [2] 70, 205 *C.* 1904 [2] 1459).
- 12) γ -Benzoylamidoacetylamidobuttersäure. Sm. 176°. NH_4 , Ag (*J. pr.* [2] 70, 225 *C.* 1904 [2] 1461).
- 13) α -[α -Benzoylamidopropionyl]amidopropionsäure. Sm. 170–171° (*J. pr.* [2] 70, 148 *C.* 1904 [2] 1394).
- 14) Methyl ester d. α -Benzoylamidoacetylamidopropionsäure. Sm. 136° (*J. pr.* [2] 70, 117 *C.* 1904 [2] 1036).
- 15) Dimethylester d. 2,4-Dimethylphenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 93° (*B.* 37, 4179 *C.* 1904 [2] 1705).
- $C_{13}H_{16}O_4N_4$ 2) Nitril d. 6-Oxy-2-Keto-4-[3-Nitrophenyl]-2,5-Dihydropyridin-3,5-Dicarbonsäure. Zers. bei 260°. NH_4 , Ba + 7H₂O, (Cu + 1½NH₃ + 1½H₂O), Ag + 4H₂O (*C.* 1904 [1] 877).
- 3) Amid d. α -Benzoylamidoacetylamidoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 223° u. Zers. (*J. pr.* [2] 70, 179 *C.* 1904 [2] 1396).
- 4) Verbindung (aus Dicyanbenzoylessigsäureäthylester). Sm. 155° u. Zers. (*A.* 332, 152 *C.* 1904 [2] 192).
- $C_{13}H_{16}O_4Br_2$ 4) Aethylester d. $\alpha\beta$ -Dibrom- β -[3,4-Dioxyphenyl]akryl-3,4-Dimethyläthersäure. Sm. 111° (*C.* 1903 [1] 580; *Soc.* 85, 164 *C.* 1904 [1] 724).
- $C_{13}H_{16}O_4S$ 2) 5-Keto-3-Phenyl-1-Methylhexahydrobenzol-3-Sulfonsäure. Ba (*B.* 37, 4041 *C.* 1904 [2] 1647).
- $C_{13}H_{16}O_4S_2$ 1) 2,4-Di[Allylsulfon]-1-Methylbenzol. Sm. 89–90° (*J. pr.* [2] 68, 336 *C.* 1903 [2] 1172).
- $C_{13}H_{16}O_6N_2$ *7) Inn. Anhydrid d. d-Phenylamidoformylglykosamin. Sm. 210–211° (*B.* 36, 29 *C.* 1903 [1] 446).
- *8) ϵ -Lakton d. Glyazindihydratotetramethylimalonsäuremethylester. Sm. 177° (*Soc.* 83, 1257 *C.* 1903 [2] 1423).
- $C_{13}H_{16}O_5N_4$ C 50,6 — H 5,2 — O 26,0 — N 18,2 — M. G. 308.
- 1) β -Phenylureidoacetylamidoacetylamidoessigsäure. Sm. 184° (*J. pr.* [2] 70, 259 *C.* 1904 [2] 1465).
- $C_{13}H_{16}O_5S_2$ *1) Aethylester d. α -[4-Methylphenylthiosulfon]acetessigsäure. Sm. 62° (*J. pr.* [2] 70, 376 *C.* 1904 [2] 1719).
- 2) Aethylester d. α -[2-Methylphenylthiosulfon]acetessigsäure. Fl. (*J. pr.* [2] 70, 382 *C.* 1904 [2] 1719).
- $C_{13}H_{16}O_6N_2$ 5) d-Phenylamidoformylglykosaminsäure (Tetraoxybutyl-N-Phenylhydantoin). Sm. 199–201° (*B.* 35, 4013 *C.* 1903 [1] 390).
- 6) $\alpha\gamma$ -Laktam d. $\beta\gamma$ -Diimido- ϵ -Ketoheptan- $\alpha\alpha\delta$ -Tricarbonsäure- $\alpha\delta$ -Diäthylester. Sm. 103–137° (*A.* 332, 129 *C.* 1904 [2] 189).
- $C_{13}H_{16}O_6S_2$ 1) 2,4-Di[Acetonylsulfon]-1-Methylbenzol. Sm. 127° (*J. pr.* [2] 68, 337 *C.* 1903 [2] 1172).
- 2) Aethylester d. α -[4-Methoxyphenylthiosulfon]acetessigsäure. Fl. (*J. pr.* [2] 70, 390 *C.* 1904 [2] 1721).
- $C_{13}H_{16}N_2S$ 2) Aethyläther d. 5-Merkapto-3,4-Dimethyl-1-Phenylpyrazol. Sd. 316–318° (*A.* 331, 244 *C.* 1904 [1] 1221).
- 3) Isopropyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 309 bis 310° (*A.* 331, 235 *C.* 1904 [1] 1221).
- $C_{13}H_{17}ON$ *5) α -Oximidobenzylhexahydrobenzol. Sm. 157° (*C. r.* 139, 345 *C.* 1904 [2] 705).
- 25) Methyläther d. 4-[4-Oxybenzoyl]methyl-1,2,3,6-Dioxidiazin. Sm. 159–160° (*A.* 330, 244 *C.* 1904 [1] 945).
- 26) Nitril d. 3-Oxy-*p*-tert. Butyl-1-Methylbenzol-*p*-Carbonsäure. Sm. 117° (*D. R. P.* 84336). — *II, 938.
- 27) 4-Methylphenylamid d. α -Penten- α -Carbonsäure. Sm. 125°; Sd. 205 bis 215°₁₃ (*B.* 37, 2000 *C.* 1904 [2] 24).
- 28) 4-Methylphenylamid d. α -Penten- ϵ -Carbonsäure. Sm. 75°; Sd. 220°₁₁ (*B.* 37, 2000 *C.* 1904 [2] 24).
- 29) 4-Methylphenylamid d. β -Penten- α -Carbonsäure. Sm. 95,5° (*B.* 37, 2000 *C.* 1904 [2] 24).
- 30) 4-Methylphenylamid d. β -Penten- ϵ -Carbonsäure. Sm. 103°; Sd. 200 bis 205°₁₂ (*B.* 37, 2000 *C.* 1904 [2] 24).

- C₁₃H₁₇ON₃** *2) 4-Dimethylamido-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol (*C.* 1897 [1] 1006; *D. R. P.* 144 393 *C.* 1903 [2] 777; *D. R. P.* 145 603 *C.* 1903 [2] 1225).
- *6) γ -Semicarbazon- α -Phenyl- δ -Methyl- α -Penten. *Sm.* 166—167° (*Soc.* 81, 1489 *C.* 1903 [1] 138).
- 8) Isopropylidenhydrazid d. 2-Isopropylidenamidobenzol-1-Carbonsäure. *Sm.* 244° (*J. pr.* [2] 69, 98 *C.* 1904 [1] 730).
- C₁₃H₁₇OCl** 2) Hydrochlorid d. Benzalpinakolin. *Sm.* 33—34° (*B.* 36, 1480; *B.* 36, 3535 *C.* 1903 [2] 1368).
- C₁₃H₁₇OBr** 1) Hydrobromid d. Benzalpinakolin. *Sm.* 44° (*B.* 36, 3534 *C.* 1903 [2] 1368).
- C₁₃H₁₇O₂N** 24) Methyläther d. 1-[4-Oxybenzoyl]hexahydropyridin. *Sd.* 220—222°, (*B.* 36, 3525 *C.* 1903 [2] 1326).
- 25) Aethylester d. 1,2,3,4-Tetrahydroisochinolin-2-Methylcarbon-säure. *Sd.* 184—185°, (*B.* 36, 1161 *C.* 1903 [1] 1186).
- 26) Phenylamidoformiat d. Oxyhexahydrobenzol. *Sm.* 82,5° (*Bl.* [3] 29, 1052 *C.* 1903 [2] 1437).
- C₁₃H₁₇O₂N₃** 8) Isopropylidenhydrazid d. α -Benzoylamidopropionsäure. *Sm.* 157,5° (*J. pr.* [2] 70, 144 *C.* 1904 [2] 1394).
- C₁₃H₁₇O₃N** *27) Phenylmonamid d. mal. Pentan- $\beta\delta$ -Dicarbonsäure. *Sm.* 155—156° (*Bl.* [3] 29, 1019 *C.* 1903 [2] 1315).
- *29) Phenylmonamid d. cis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. *Sm.* 149° (147°) (*Soc.* 83, 358 *C.* 1903 [1] 389, 1122; *C. r.* 136, 243 *C.* 1903 [1] 565).
- *42) *r*- α -Benzoylamido- γ -Methylvaleriansäure. *Sm.* 139—140° (*Bl.* [3] 31, 1182 *C.* 1904 [2] 1710).
- *58) Phenylmonamid d. β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. *Sm.* 100 bis 103° (*C.* 1903 [2] 288).
- 62) α -Methylhydrocotarnin. *Fl.* (2HCl, PtCl₄), HBr, HJ, H₂SO₄ (*B.* 36, 4258 *C.* 1904 [1] 382).
- 63) Benzoyl-d-Isoleucin. *Sm.* 116—117° (*B.* 37, 1827 *C.* 1904 [1] 1645).
- 64) Aethylester d. 4-Methylphenylimidooxyessigäthyläthersäure. *Sd.* 160—162°, (*Soc.* 85, 989 *C.* 1904 [2] 830).
- 65) d-sec. Amylmonamid d. Benzol-1,2-Dicarbonsäure. *Sm.* 123° (*B.* 37, 1048 *C.* 1904 [1] 1249).
- 66) norm. Propylester d. Phenylacetylamidoessigsäure. *Sm.* 31° (*J. pr.* [2] 38, 106). — II, 1313.
- 67) isom. Phenylmonamid d. cis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. *Sm.* 127° (*Bl.* [3] 29, 336 *C.* 1903 [1] 1216).
- C₁₃H₁₇O₃N₃** 4) α -Phenylpropylester d. α -Semicarbazonpropionsäure. *Sm.* 143° (*C. r.* 138, 985 *C.* 1904 [1] 1398).
- 5) Amid d. β -Benzoylamidoacetylamidobuttersäure. *Sm.* 173° (*J. pr.* [2] 70, 213 *C.* 1904 [2] 1460).
- 6) 2-Nitro-4-Methylphenylamid d. Hexahydropyridin-1-Carbonsäure. *Sm.* 152° (*Bl.* [3] 31, 23 *C.* 1904 [1] 521).
- C₁₃H₁₇O₃Br₃** 1) α ,3-Dimethyläther-4-Aethyläther d. 2,5-Dibrom-3,4-Dioxy-1- β -Brom- α -Oxypropyl]benzol. *Sm.* 63—64° (*B.* 37, 1132 *C.* 1904 [1] 1261).
- C₁₃H₁₇O₄N** 26) 2,4,5-Trimethyläther d. γ -Oximido- α -[2,4,5-Trioxyphenyl]butan. *Sm.* 145° (*Ar.* 242, 102 *C.* 1904 [1] 1008).
- 27) α -Phenylamidoformoxyl- β -Methylbutan- β -Carbonsäure. *Sm.* 114 bis 115° (*Bl.* [3] 31, 322 *C.* 1904 [1] 1134).
- 28) 4-Aethoxylphenylamid d. α -Acetoxypropionsäure. *Sm.* 129° (*B.* 37, 3974 *C.* 1904 [2] 1605).
- C₁₃H₁₇O₄N₃** 6) δ -[4-Nitrophenyl]hydrazon- β -Methylpentan- β -Carbonsäure. *Sm.* 190° (*Soc.* 85, 1221 *C.* 1904 [2] 1108).
- 7) α -Bisamidoacetylamido- β -Phenylpropionsäure. *Sm.* 238—239° (*B.* 37, 3315 *C.* 1904 [2] 1307).
- 8) α -Amido- β -Phenylpropionylamidoacetylamidoessigsäure. *Sm.* 235° u. Zers. (*B.* 37, 3066 *C.* 1904 [2] 1207).
- 9) Aethylester d. β -Phenylureidoacetylamidoessigsäure. *Sm.* 165° (*J. pr.* [2] 70, 252 *C.* 1904 [2] 1464).
- 10) Aethylester d. Benzoylamidoacetylamidomethylamidoameisen-säure. *Sm.* 200° (*J. pr.* [2] 70, 80 *C.* 1904 [2] 1033).

- $C_{13}H_{17}O_4N_5$ *1) Hydrazid d. Benzoylbis[Amidoacetyl]amidoessigsäure. Sm. 245 bis 250° u. Zers. (*J. pr.* [2] 70, 83 *C.* 1904 [2] 1033).
- $C_{13}H_{17}O_4J$ 2) Diacetat d. 4-Jodoso-1-Propylbenzol. Sm. 101° (*A.* 327, 305 *C.* 1903 [2] 353).
- 3) Diacetat d. 4-Jodoso-3-Aethyl-1-Methylbenzol (*J. pr.* [2] 69, 438 *C.* 1904 [2] 589).
- $C_{13}H_{17}O_5N_3$ 5) Oxim d. Glyazindihydrotetramethylimalonsäuremethylester-e-Lakton. Sm. 136° (*Soc.* 83, 1258 *C.* 1903 [2] 1423).
- $C_{13}H_{17}O_8N$ 2) 3-Nitrobenzylidendulcit. Sm. 256,5° (*Bl.* [3] 29, 506 *C.* 1903 [2] 237).
- 3) 4-Nitrobenzylidendulcit. Sm. 186° (*Bl.* [3] 29, 506 *C.* 1903 [2] 237).
- 4) 2-Nitrobenzyliden-d-Mannit. Sm. 214° (*R.* 19, 179). — *III, 9.
- 5) 3-Nitrobenzyliden-d-Mannit. Sm. 247° (*R.* 19, 179). — *III, 10.
- 6) 4-Nitrobenzyliden-d-Mannit. Sm. 162° (198,5°) (*R.* 19, 179; *Bl.* [3] 29, 504 *C.* 1903 [2] 237). — *III, 10.
- 7) 4-Nitrobenzyliden-d-Sorbit. Sm. 150° (204,5°) (*R.* 19, 179; *Bl.* [3] 29, 505 *C.* 1903 [2] 237). — *III, 10.
- $C_{13}H_{18}ON_2$ 17) Nitril d. α -Diäthylamido- α -[4-Oxyphenyl]essigmethyläthersäure. Sm. 44°; Sd. 166°,1 (*B.* 37, 4090 *C.* 1904 [2] 1725).
- 18) 2-Methylphenylamid d. Hexahydropyridin-1-Carbonsäure. Sm. 113° (*Bl.* [3] 29, 410 *C.* 1903 [1] 1363).
- 19) 4-Methylphenylamid d. Hexahydropyridin-1-Carbonsäure. Sm. 143° (*Bl.* [3] 29, 410 *C.* 1903 [1] 1363).
- 20) Phenylhydrazid d. Hexahydrobenzolcarbonsäure. Sm. 164° (*B.* 36, 1095 *C.* 1903 [1] 1139).
- $C_{13}H_{18}O_2N_2$ *10) δ -Phenylhydrazon- β -Methylpentan- β -Carbonsäure. Sm. 135° (*Soc.* 85, 1221 *C.* 1904 [2] 1108).
- 20) 3-Nitroso-4,4,6-Trimethyl-2-Phenyltetrahydro-1,3-Oxazin. Sm. 108—111° (*M.* 25, 862 *C.* 1904 [2] 1241).
- 21) α -Phenylhydrazon- β - β -Dimethylbutan- α -Carbonsäure. Sm. 146° (*A.* 327, 207 *C.* 1903 [1] 1407).
- $C_{13}H_{18}O_3N_2$ 13) r - α -[Phenylamidoformyl]amidoisocaprönsäure. Sm. 165° u. Zers. (*B.* 37, 2492 *Anm.* *C.* 1904 [2] 425).
- 14) Phenylamidoformyl-d-Isoleucin. Sm. 119—120° (*B.* 37, 1829 *C.* 1904 [1] 1645).
- $C_{13}H_{18}O_3N_4$ C 56,1 — H 6,5 — O 17,3 — N 20,1 — M. G. 278.
- 1) Hydrazid d. β -Benzoylamidoacetylamidobuttersäure. Sm. 188°. HCl (*J. pr.* [2] 70, 207 *C.* 1904 [2] 1459).
- 2) Hydrazid d. γ -Benzoylamidoacetylamidobuttersäure. Sm. 165—167° u. Zers. (*J. pr.* [2] 70, 226 *C.* 1904 [2] 1461).
- 3) Hydrazid d. α -[α -Benzoylamidopropionyl]amidopropionsäure. Sm. 183—184° (*J. pr.* [2] 70, 151 *C.* 1904 [2] 1394).
- $C_{13}H_{18}O_3Br_2$ 1) α ,3-Dimethyläther-4-Aethyläther d. 2-Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 63—64° (*B.* 37, 1131 *C.* 1904 [1] 1261).
- $C_{13}H_{18}O_4N_2$ 6) Aethylester d. 1- α -Amidoacetylamido- β -[4-Oxyphenyl]propionsäure. HCl (*B.* 37, 2496 *C.* 1904 [2] 425).
- $C_{13}H_{18}O_4N_4$ C 53,1 — H 6,1 — O 21,8 — N 19,0 — M. G. 294.
- 1) Aethylester d. α -[α -Phenylamidoformylsemicarbazido]propionsäure. Sm. 163° (*C.* 1904 [2] 1029).
- $C_{13}H_{18}O_4N_6$ C 48,4 — H 5,6 — O 19,9 — N 26,1 — M. G. 322.
- 1) Hydrazid d. β -Phenylureidoacetylamidocetylamidoessigsäure. Sm. 241° u. Zers. HCl (*J. pr.* [2] 70, 261 *C.* 1904 [2] 1465).
- 2) Hydrazid d. α -Benzoylamidoacetylamidoäthan- α - β -Dicarbonsäure. Sm. 213,5°. 2HCl (*J. pr.* [2] 70, 174 *C.* 1904 [2] 1396).
- $C_{13}H_{18}O_5Hg$ 1) Verbindung (aus Methyleugenol) (*B.* 36, 3581 *C.* 1903 [2] 1363).
- $C_{13}H_{18}O_5N_2$ *3) Phenylglykoseureid. Sm. 223° u. Zers. (*R.* 22, 66 *C.* 1903 [1] 1081).
- $C_{13}H_{18}O_7N_2$ C 49,7 — H 5,7 — O 35,7 — N 8,9 — M. G. 314.
- 1) 2-Oxybenzoylhydrazon d. d-Glykose. Zers. 198° (*C.* 1904 [2] 1494).
- 2) Diäthylester d. δ ϵ -Diimido- β -Ketohehexan- γ ζ ζ -Tricarbonsäure. Sm. 160° (*A.* 332, 145 *C.* 1904 [2] 191).
- $C_{13}H_{19}N_3J$ 1) Jodmethylat d. 3-Methylimido-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 183° (*B.* 36, 3286 *C.* 1903 [2] 1190).
- $C_{13}H_{19}ON$ *28) 4-tert. Amylphenylamid d. Essigsäure. Sm. 138—139° (*A.* 327, 222 *C.* 1903 [1] 1408).
- 30) O-Aethylcancampher (*C. r.* 136, 789 *C.* 1903 [1] 1085).

- $C_{13}H_{19}ON$ 31) 4,4,6-Trimethyl-2-Phenyltetrahydro-1,3-Oxazin. *Sd.* 131°₁₀. (2HCl, $PtCl_4$), (HCl, $AlCl_3$) (*M.* 25, 859 *C.* 1904 [2] 1241).
- $C_{13}H_{19}O_2N$ *33) 2-Methylphenylester d. Diäthylamidoessigsäure. *Fl.* HCl, HBr, HJ (*Ar.* 240, 634 *C.* 1903 [1] 24).
- *34) 3-Methylphenylester d. Diäthylamidoessigsäure. *Fl.* HCl, Br (*Ar.* 240, 635 *C.* 1903 [1] 24).
- *35) 4-Methylphenylester d. Diäthylamidoessigsäure. *Fl.* HBr, Pikrat (*Ar.* 240, 635 *C.* 1903 [1] 24).
- 44) Betain d. α -Methyldiäthylamidophenylessigsäure. *Sm.* 85—87° (*B.* 36, 4193 *C.* 1904 [1] 263).
- 45) norm. Hexylester d. Phenylamidoameisensäure. *Sm.* 42° (*C. r.* 138, 149 *C.* 1904 [1] 577).
- 46) Benzoat d. α -Dimethylamido- β -Oxy- β -Methylpropan. *Sm.* 202° (*C. r.* 138, 767 *C.* 1904 [1] 1196).
- $C_{13}H_{19}O_3N$ *10) Diäthylamidoacetat d. 1,2-Dioxybenzolmonomethyläther. *Fl.* HCl, (2HCl, $PtCl_4$), HBr (*Ar.* 240, 637 *C.* 1903 [1] 24).
- 11) Dimethyläther d. 4-Acetylamido-2,5-Dioxy-1-Propylbenzol. *Sm.* 104° (*B.* 36, 857 *C.* 1903 [1] 1084).
- 12) Dimethyläther d. 6-Acetylamido-3,4-Dioxy-1-Propylbenzol. *Sm.* 144° (*B.* 36, 860 *C.* 1903 [1] 1085).
- 13) Methyl ester d. 1-Methyl-1,2,3,4-Tetrahydrochinoliniumessigsäure. d-Camphersulfonat, d-Bromcamphersulfonat (*Soc.* 83, 1416 *C.* 1904 [1] 439).
- $C_{13}H_{19}O_3Br$ *1) α ,3-Dimethyläther-4-Aethyläther d. β -Brom- α -Oxy- α -[3,4-Dioxyphenyl]propan. *Sm.* 69—70° (*B.* 37, 1130 *C.* 1904 [1] 1261).
- $C_{13}H_{19}O_3J$ 1) Aethylester d. o-Jodecamphocarbonsäure. *Sm.* 42—43° (*B.* 36, 1727 *C.* 1903 [2] 37).
- $C_{13}H_{19}O_4N$ *4) Diäthylester d. stab. 2,6-Dimethyl-1,4-Dihydropyridin-3,5-Dicarbonsäure (*B.* 36, 2848 *C.* 1903 [2] 1129; *B.* 36, 2852 *C.* 1903 [2] 1129).
- $C_{13}H_{19}O_4Br$ 1) Tetramethyläther d. β -Brom- α -Oxy- α -[2,4,5-Trioxyphenyl]propan. *Sm.* 77,5° (*Ar.* 242, 100 *C.* 1904 [1] 1008).
- $C_{13}H_{19}O_5N$ 9) 2,5-Dimethyläther-3-Aethyläther d. 4-Nitro-2,3,5-Trioxyl-1-Propylbenzol. *Sm.* 75° (*B.* 36, 1719 *C.* 1903 [2] 114).
- 10) isom. ζ -Benzylidenamido- $\alpha\beta\gamma\delta\epsilon$ -Pentaoxyhexan (Benzylidenmannamin). *Sm.* 183° u. Zers. (*C. r.* 138, 505 *C.* 1904 [1] 872).
- $C_{13}H_{19}N_2J$ 2) Nitril d. α -Methyldiäthyljodammoniumphenylessigsäure. *Sm.* 128—129° (*B.* 36, 4193 *C.* 1904 [1] 263).
- $C_{13}H_{20}ON_2$ 10) Propyläther d. Propylhydrazonoxylphenylmethan. *Sm.* 100°. HBr (*J. pr.* [2] 70, 279 *C.* 1904 [2] 1545).
- $C_{13}H_{20}O_2N_2$ 2) Amid d. α -Diäthylamido- α -[4-Oxyphenyl]essigmethyläthersäure. *Sm.* 161° (*B.* 37, 4091 *C.* 1904 [2] 1725).
- $C_{13}H_{20}O_2N_4$ 3) Diäthyläther d. Benzylidendi[- α -Amido- α -Imido- α -Oxymethan]. *Sm.* 154° (*C.* 1904 [2] 30).
- 4) α -Aethylureido- β -Aethyl- α -Benzylharnstoff. *Sm.* 146° (*B.* 37, 2326 *C.* 1904 [2] 312).
- $C_{13}H_{20}O_4N_2$ 2) Methylphenylhydrazon d. Fukose. *Sm.* 177° (*B.* 37, 306 *C.* 1904 [1] 649).
- 3) Aethylester d. α -Cyan- α -Oxypropion-[β -Cyan- α -Aethoxylisobutyl]-äthersäure. *Sm.* 120° (*C.* 1904 [1] 160).
- $C_{13}H_{20}O_4S_2$ 1) α -Isoamylsulfon- α -Phenylsulfonäthan. *Sm.* 84—86° (*B.* 36, 303 *C.* 1903 [1] 500).
- 2) 2,4-Di[Propylsulfon]-1-Methylbenzol. *Sm.* 83—84° (*J. pr.* [2] 68, 336 *C.* 1903 [2] 1172).
- $C_{13}H_{20}O_5N_2$ *1) Methylphenylhydrazon d. d-Galaktose. *Sm.* 189—190° (*R.* 15, 225; *B.* 37, 305 *C.* 1904 [1] 649; *B.* 37, 3853 *C.* 1904 [2] 1711).
- *4) β -Amid d. β -Cyan- γ -Oxy- ϵ -Ketohehexanäthyläther- $\beta\delta$ -Dicarbonsäure- δ -Aethylester? (*G.* 33 [2] 161 *C.* 1903 [2] 1282).
- 5) α -Keto-1,3-Di[α -Oximidoäthyl]-1,3-Di[Oxymethyl]-6-Methyl-1,2,3,4-Tetrahydrobenzol. *Sm.* 268° (*B.* 36, 2175 *C.* 1903 [2] 371).
- $C_{13}H_{20}O_6N_2$ 10) isom. α -[$\beta\gamma\delta\epsilon\zeta$ -Pentaoxyhexyl]- β -Phenylharnstoff (Mannaminphenylharnstoff). *Sm.* 202° (*C. r.* 138, 505 *C.* 1904 [1] 872).
- $C_{13}H_{20}NBBr$ 1) Methyläthylallyl-4-Methylphenylammoniumbromid. Zers. bei 173 bis 174° (*B.* 37, 2718 *C.* 1904 [2] 592).

- $C_{13}H_{20}NJ$ 9) Methyläthylallyl-4-Methylphenylammoniumjodid. Sm. 140—142° + $CHCl_3$ (B. 37, 2716 C. 1904 [2] 591).
- $C_{13}H_{21}ON$ 13) Methyläthylallyl-4-Methylphenylammoniumhydroxyd. Salze siehe (B. 37, 2716 C. 1904 [2] 592).
- 14) Oxim d. Allylcampher. Sd. 165—170°₂₀ (C. r. 136, 792 C. 1903 [1] 1086).
- 15) Oxim d. Pseudojonon. Sd. 190—195°₂₀ (C. 1904 [1] 280).
- 16) Methylhydroxyd d. 1-Benzylhexahydropyridin. d-Bromecampher-sulfonat (Soc. 83, 1143 C. 1903 [2] 1062).
- $C_{13}H_{21}ON_3$ C 66,4 — H 8,9 — O 6,8 — N 17,9 — M. G. 235.
- 1) 4-Semicarbazone-6-Isobutenyl-2,2-Dimethyl-1,2,3,4-Tetrahydro-benzol. Sm. 168—169° (L. BLACH, Dissert., Heidelberg 1900).
- 2) Semicarbazone d. Xyliton. Sm. 158—159° (L. BLACH, Dissert., Heidelberg 1900).
- 3) Semicarbazone d. Isoxyliton. Sm. 157° (L. BLACH, Dissert., Heidelberg 1900).
- $C_{13}H_{21}O_2N$ *) 1-Menthylester d. Cyanessigsäure. Sm. 83—84° (C. 1903 [1] 566; Soc. 85, 43 C. 1904 [1] 789).
- $C_{13}H_{21}O_3N$ 3) d-Bornylester d. α -Oximidopropionsäure. Sm. 90° (P. Ch. S. No. 230). — *III, 338.
- $C_{13}H_{21}O_4N$ 10) Diäthylester d. δ -Cyan- γ -Methylpentan- α , δ -Dicarbonsäure. Sd. 184 bis 194°₂₉ (C. 1903 [2] 1425).
- $C_{13}H_{21}O_5N$ C 57,6 — H 7,7 — O 29,5 — N 5,2 — M. G. 271.
- 1) Diäthylester d. 5-Imido-1-Oxy-1-Methylhexahydrobenzol-2,4-Dicarbonsäure. Sm. 92° (A. 332, 17 C. 1904 [1] 1565).
- $C_{13}H_{22}O_2Br_2$ 1) Dibromid d. 9-Methyl-3-Isopropenylbicyclo-[1,3,3]-Nonan-5,7-diol. Sm. 161° u. Zers. (B. 36, 231 C. 1903 [1] 514).
- 2) Dibromid d. isom. 9-Methyl-3-Isopropenylbicyclo-[1,3,3]-Nonan-5,7-diol. Fl. (B. 36, 233 C. 1903 [1] 514).
- $C_{13}H_{22}O_3S$ 1) Dihydro- α -Jononsulfonsäure + 3H₂O. Sm. 80—88° u. Zers. Na (C. 1904 [1] 281).
- $C_{13}H_{22}O_6N_2$ C 51,6 — H 7,3 — O 31,8 — N 9,3 — M. G. 302.
- 1) β , δ -Diacetyl- β , δ -Di[α -Oximidoäthyl- α -Dioxypentan + H₂O. Sm. 252° (B. 36, 2174 C. 1903 [2] 371).
- $C_{13}H_{22}O_7N_4$ 2) Diäthylester d. Carboxylamidoacetylamidooacetylamidooacetylamidooessigsäure (Carbäthoxyltriglycylglycinäthylester). Sm. 235—236° (B. 36, 2103 C. 1903 [1] 1304).
- $C_{13}H_{22}NJ$ 3) Methylidipropylphenylammoniumjodid. Sm. 156° (Soc. 83, 1407 C. 1904 [1] 438).
- $C_{13}H_{23}O_2N$ 2) α -[Methyl- β -Oxyäthylamido]campher. Fl. (A. 307, 195). — *III, 360.
- 3) Äthylester d. d-Bornylamidoameisensäure. Sm. 89° (Soc. 85, 686 C. 1904 [2] 331).
- 4) Äthylester d. Neobornylamidoameisensäure. Sm. 36° (Soc. 85, 688 C. 1904 [2] 332).
- $C_{13}H_{24}OS_2$ 1) Äthylester d. Menthylxanthogensäure. Sm. 9° (C. 1904 [1] 1347).
- $C_{13}H_{24}O_{11}N_2$ 1) Laktoseureid + H₂O. Zers. bei 200° (R. 22, 72 C. 1903 [1] 1081).
- $C_{13}H_{25}O_2N$ C 68,7 — H 11,0 — O 14,1 — N 6,2 — M. G. 227.
- 1) Äthylester d. 1-Menthylamidoameisensäure. Sm. 59° (Soc. 85, 689 C. 1904 [2] 332).
- $C_{13}H_{25}O_{11}N_3$ C 39,1 — H 6,3 — O 44,1 — N 10,5 — M. G. 399.
- 1) Semicarbazone d. Cellose + 2H₂O. Sm. 183—185° (Bl. [3] 31, 1078 C. 1904 [2] 1493).
- 2) Semicarbazone d. Laktose + 2H₂O. Sm. 185° u. Zers. (Bl. [3] 31, 1078 C. 1904 [2] 1493).
- $C_{13}H_{26}NJ$ 3) Jodmethylat d. Base $C_{15}H_{23}N$ (aus α -Camphylamin). Sm. 285° u. Zers. (C. r. 136, 1462 C. 1903 [2] 287).
- $C_{13}H_{27}ON$ 8) α -Acetylamidoundekan. Sm. 47—48° (Bl. [3] 29, 1214 C. 1904 [1] 355).
- 9) β -Oximidotridekan. Sm. 56—57° (Bl. [3] 29, 1130 C. 1904 [1] 258; Bl. [3] 29, 1211 C. 1904 [1] 355).
- 10) Methylhydroxyd d. Dimethylbornylamin (Soc. 85, 1195 C. 1904 [2] 1125).
- $C_{13}H_{27}O_2N$ *) 2) Äthylester d. Diisoamylamidoameisensäure. Sd. 129—130°₁₄ (B. 36, 2477 C. 1903 [2] 559).
- $C_{13}H_{28}ON_2$ 3) α -[d-sec. Butyl]- β , β -Diisobutylharnstoff. Sm. 84° (Ar. 242, 71 C. 1904 [1] 999).

$C_{13}H_{23}N_2S$ 2) $\alpha\alpha$ -Diisobutyl- β -[d-sec. Butyl]thioharnstoff. Sm. 33° (*Ar.* 242, 61 *C.* 1904 [1] 998).

— 13 IV —

- $C_{13}H_4O_9N_4Cl_2$ 1) 4,4'-Dichlor-3,5,3',5'-Tetranitrodiphenylketon. Sm. 202° (*G.* 34 [1] 381 *C.* 1904 [2] 111).
- $C_{13}H_5O_2ClBr_3$ 1) α -Chlor-2,3,5,2',3',5'-Hexabrom-4,4'-Dioxydiphenylmethan. Sm. 215—217° u. Zers. (*A.* 330, 73 *Ann.* *C.* 1904 [1] 1148).
- $C_{13}H_5O_7N_3Cl_2$ 1) 4,4'-Dichlor-3,5,3'-Trinitrodiphenylketon. Sm. 140° (*G.* 34 [1] 377 *C.* 1904 [2] 110).
- $C_{13}H_5O_5N_3Cl_2$ 2) 4,4'-Dichlor-3,3'-Dinitrodiphenylketon. Sm. 120° (*G.* 34 [1] 377 *C.* 1904 [2] 110).
- $C_{13}H_5O_5N_3Br_2$ 2) 3,3'-Dibrom-*p*-Dinitrodiphenylketon. Sm. 209° (*B.* 37, 3484 *C.* 1904 [2] 1131).
- 3) 3,4'-Dibrom-*p*-Dinitrodiphenylketon. Sm. 181° (*B.* 37, 3485 *C.* 1904 [2] 1131).
- $C_{13}H_5O_6N_3Br_4$ 1) 2,5,2',5'[oder 5,6,5',6']-Tetrabrom-3,3'-Dinitro-4,4'-Dioxydiphenylmethan. Sm. 244° (*A.* 333, 366 *C.* 1904 [2] 1117).
- $C_{13}H_7O_2NS$ 2) Carbindophenin (*B.* 37, 3349 *C.* 1904 [2] 1058).
- $C_{13}H_7O_2NCl_4$ 1) Phenylamidoformiat d. 2,3,4,6-Tetrachlor-1-Oxybenzol. Sm. 141—142° (*B.* 37, 4016 *C.* 1904 [2] 1716).
- $C_{13}H_5O_2NCl$ 3) Verbindung (aus Phenol u. o-Nitrobenzaldehyd). Sm. oberh. 200° (*Bl.* [3] 31, 531 *C.* 1904 [1] 1598).
- $C_{13}H_5O_3NCl$ 3) 4-Chlor-4'-Nitrodiphenylketon. Sm. 98° (*R.* 23, 107 *C.* 1904 [1] 1136).
- $C_{13}H_5O_3NBr$ 2) 4-Brom-4'-Nitrodiphenylketon. Sm. 134° (*R.* 23, 108 *C.* 1904 [1] 1136).
- $C_{13}H_5O_5NBr$ 1) Phenylester d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 165° (*G.* 34 [1] 273 *C.* 1904 [1] 1499).
- 2) Phenylester d. *p*-Brom-*p*-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 193—195° (*G.* 34 [1] 275 *Ann.* *C.* 1904 [1] 1499).
- $C_{13}H_5O_5N_3Br$ 5) 3-Brom-*p*-Dinitro-3'-Amidodiphenylketon. Sm. 250° (*B.* 37, 3485 *C.* 1904 [2] 1131).
- 6) 3-Brom-*p*-Dinitro-4'-Amidodiphenylketon. Sm. 240° (*B.* 37, 3486 *C.* 1904 [2] 1131).
- $C_{13}H_5O_6N_3Br_2$ 1) 5,5'-Dibrom-3,3'-Dinitro-4,4'-Dioxydiphenylmethan. Sm. 232° (*A.* 333, 365 *C.* 1904 [2] 1117).
- $C_{13}H_5O_8N_3Br$ 1) 2-Brom-4,6-Dinitrophenyl-4-Nitrobenzylnitramin. Sm. 132° (*R.* 21, 429 *C.* 1903 [1] 506).
- $C_{13}H_3N_2Br_2S$ 1) *p*-Dibrom-1-Phenylamidobenzthiazol. Sm. 195° (*B.* 36, 3129 *C.* 1903 [2] 1070).
- $C_{13}H_5ONCl_2$ *1) α -Oximido-4,4'-Dichlordiphenylmethan. Sm. 135° (*C. r.* 137, 711 *C.* 1903 [2] 1442).
- 8) 3,5-Dichlor-4-Amidodiphenylketon. Sm. 137° (*Soc.* 85, 345 *C.* 1904 [1] 1405).
- $C_{13}H_5ONBr_2$ *3) α -Oximido-4,4'-Dibromdiphenylmethan. Sm. 150° (150—152°) (*C. r.* 137, 710 *C.* 1903 [2] 1442; *Am.* 30, 452 *C.* 1904 [1] 377).
- $C_{13}H_5ONBr_4$ 1) Phenyl-3,4,5,6-Tetrabrom-2-Oxybenzylamin. Sm. 165—170° u. Zers. (*A.* 332, 179 *C.* 1904 [2] 209).
- $C_{13}H_5ONJ_2$ 5) 3,4-Dijodphenylamid d. Benzolcarbonsäure. Sm. 174° (*C. r.* 136, 1078 *C.* 1903 [1] 1339).
- $C_{13}H_5ON_3S_2$ 1) 1-Naphtylamid d. Isorhodanformylthioameisensäure. Sm. 182° (*Soc.* 83, 94 *C.* 1903 [1] 230, 447).
- $C_{13}H_5OClS$ 1) Benzozat d. 4-Chlor-1-Merkaptobenzol. Sm. 75—76° (*C. r.* 138, 983 *C.* 1904 [1] 1413).
- $C_{13}H_5OBrS$ 1) Benzozat d. 4-Brom-1-Merkaptobenzol. Sm. 83—84° (*C. r.* 138, 983 *C.* 1904 [1] 1413).
- $C_{13}H_5O_2NCl_2$ 2) $\alpha\alpha$ -Dichlor-4-Nitrodiphenylmethan. Sm. 56—57° (*B.* 37, 605 *C.* 1904 [1] 887).
- $C_{13}H_5O_2NBr_2$ *3) 2,6-Dibrom-4-Benzoylamido-1-Oxybenzol (*Soc.* 81, 1479 *C.* 1903 [1] 144).
- $C_{13}H_5O_2N_2Cl$ 7) Phenyl-4-Chlor-2-Nitrobenzylidenamin. Sm. 93° (*B.* 37, 1865 *C.* 1904 [1] 1600).

- $C_{13}H_9O_2N_2Cl$ 8) Phenyl-6-Chlor-3-Nitrobenzylidenamin. Sm. 103° (*M.* 25, 369 *C.* 1904 [2] 322).
- $C_{13}H_9O_2N_2Br$ 9) Phenylamid d. 4-Chlor-2-Nitrosobenzol-1-Carbonsäure. Sm. 170° (*B.* 37, 1870 *C.* 1904 [1] 1601).
- $C_{13}H_9O_2N_2Br_2$ 2) Phenyl-4-Brom-2-Nitrobenzylidenamin. Sm. 105° (*B.* 37, 1869 *C.* 1904 [1] 1601).
- $C_{13}H_9O_2N_2Br_2$ 1) Phenylamid d. 3, 5 - Dibrom - 4 - Oxyphenylazoameisensäure. Sm. 226—227° u. Zers. (*A.* 334, 173 *C.* 1904 [2] 834).
- $C_{13}H_9O_2NCl_2$ 3) 2-Chlorbenzyläther d. 4-Chlor-2-Nitro-1-Oxybenzol. Sm. 117° (*D.R.P.* 142061 *C.* 1903 [2] 83).
- $C_{13}H_9O_2N_2Br$ 6) 3-Brom-1-Benzylidenamido-2-Keto-1, 2-Dihydropyridin-5-Carbonsäure. Sm. 243° (*B.* 37, 3840 *C.* 1904 [2] 1616).
- $C_{13}H_9O_4N_2Br$ 1) 6-Brom-2-Nitro-4-Benzoylamido-1-Oxybenzol. Sm. 247° (*Soc.* 81, 1478 *C.* 1903 [1] 23, 144).
- $C_{13}H_9O_4N_3Br_2$ 2) Phenylamid d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 221° (*G.* 34 [1] 275 *C.* 1904 [1] 1499).
- $C_{13}H_9O_4N_3Br_2$ 2) 4, 6-Dibrom-2-Nitrophenyl-4-Nitrobenzylamin. Sm. 128° (*R.* 21, 430 *C.* 1903 [1] 506).
- $C_{13}H_9O_4ClS$ * 2) 2-Chlorid d. Benzol-1-Carbonsäurephenylester-2-Sulfonsäure. Sm. 103—104° (*Am.* 30, 302 *C.* 1903 [2] 1122).
- $C_{13}H_9O_5N_3Cl_2$ 1) 3', 5'-Dichlor-4, 6-Dinitro-4-Oxy-3-Methyldiphenylamin. Sm. 230° (*B.* 37, 2094 *C.* 1904 [2] 34).
- 2) Methyläther d. 2-Dichlor-2', 4'-Dinitro-2-Oxydiphenylamin. Sm. 206—207° (*B.* 36, 3270 *C.* 1903 [2] 1127).
- $C_{13}H_9O_7NS$ 2) 1-Phenylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. $K, Ba + 5H_2O$ (*Am.* 30, 377 *C.* 1904 [1] 275).
- $C_{13}H_9NClBr$ 1) α -Chlor- α -Phenylimido- α -[4-Bromphenyl]methan. Sm. 78°; $Sd.$ 205—207°₁₃ (*Am.* 30, 34 *C.* 1903 [2] 363).
- $C_{13}H_{10}ONCl$ * 8) Phenylchloramid d. Benzolcarbonsäure. Sm. 81,5—82° (*Am.* 29, 305 *C.* 1903 [1] 1166).
- * 10) 4-Chlorphenylamid d. Benzolcarbonsäure. Sm. 187—187,5° (192—193°) (*Am.* 29, 306 *C.* 1903 [1] 1166; *R.* 22, 11 *C.* 1903 [1] 1082; *J. pr.* [2] 67, 453 *C.* 1903 [1] 1421).
- 13) 5-Chlor-2-Amidodiphenylketon. Sm. 100° (*Soc.* 85, 344 *C.* 1904 [1] 1405).
- 14) 3-Chlor-4-Amidodiphenylketon. Sm. 140° (*Soc.* 85, 342 *C.* 1904 [1] 1405).
- $C_{13}H_{10}ONBr_3$ 1) Phenyl-2, 4, 6-Tribrom-3-Oxybenzylamin. Sm. 96° (*A.* 332, 182 *C.* 1904 [2] 209).
- $C_{13}H_{10}ON_2Cl_2$ 7) α -Phenyl- β -[3, 5-Dichlor-2-Oxybenzyliden]hydrazin. Sm. 153° (*B.* 37, 4028 *C.* 1904 [2] 1718).
- $C_{13}H_{10}ON_2Br_2$ 10) Monobenzoylderivat d. 2, 6-Dibrom-1, 4-Diamidobenzol. Sm. 194° (*Am.* 31, 219 *C.* 1904 [1] 1073).
- $C_{13}H_{10}ON_2S$ 6) 2-Imido-4-Keto-3-[2-Naphtyl]tetrahydrothiazol. Sm. 147° (*C.* 1903 [2] 110).
- 7) 2-[2-Naphtyl]imido-4-Ketotetrahydrothiazol (stabil. 2-Naphtylpseudothiohydantoin). Sm. 213—214° u. Zers. (*C.* 1903 [2] 110).
- $C_{13}H_{10}O_2NCl$ 3) 2-Chlor-4'-Nitrodiphenylmethan? Sm. 67° (*R.* 23, 108 *C.* 1904 [1] 1136).
- 4) 4-Chlor-4'-Nitrodiphenylmethan. Sm. 104° (*R.* 23, 107 *C.* 1904 [1] 1136).
- $C_{13}H_{10}O_2NCl_3$ 1) Phenylaminverbindung (aus 2, 3, 5, 6-Tetrachlor-1-Oxy-4-Keto-1-Methyl-1, 4-Dihydrobenzol). Sm. 192° (*A.* 328, 303 *C.* 1903 [2] 1248).
- $C_{13}H_{10}O_2NBr$ 5) 2-Brom-4'-Nitrodiphenylmethan? Sm. 73° (*R.* 23, 109 *C.* 1904 [1] 1136).
- 6) 4-Brom-4'-Nitrodiphenylmethan. Sm. 121° (*R.* 23, 108 *C.* 1904 [1] 1136).
- $C_{13}H_{10}O_2N_2S$ 8) Nitril d. 3-Phenylsulfonamidobenzol-1-Carbonsäure. Sm. 126,5 bis 127° (*C.* 1904 [2] 102).
- 9) Phenylcyanamid d. Benzolsulfonsäure. Sm. 66—67° (*B.* 37, 2810 *C.* 1904 [2] 592).
- $C_{13}H_{10}O_2N_3Cl$ * 2) 6-Chlor-3-Nitrobenzylidenphenylhydrazin. Sm. 183° (*M.* 25, 367 *C.* 1904 [2] 322).

- $C_{18}H_{10}O_2N_3Cl$ 3) Phenyl-4-Chlor-2-Nitrobenzylidenhydrazin. Sm. 176—177° (180—181°) (*B.* 36, 3301 *C.* 1903 [2] 1173; D.R.P. 149748 *C.* 1904 [1] 909).
- $C_{18}H_{10}O_2N_3Br$ 4) Phenyl-4-Brom-2-Nitrobenzylidenhydrazin. Sm. 181—182° (*B.* 36, 3303 *C.* 1903 [2] 1173; D.R.P. 149748 *C.* 1904 [1] 909).
- $C_{18}H_{10}O_2N_3J$ 1) Phenyl-4-Jod-2-Nitrobenzylidenhydrazin. Sm. 185° (*B.* 36, 3303 *C.* 1903 [2] 1173; D.R.P. 149749 *C.* 1904 [1] 909).
- $C_{18}H_{10}O_3NCl$ 1) 2-Nitrophenyläther d. 2-Chlor-1-Oxymethylbenzol. Sm. 89° (D.R.P. 142061 *C.* 1903 [2] 83).
- 2) 2-Nitrophenyläther d. 4-Chlor-1-Oxymethylbenzol. Sm. 75—78° (D.R.P. 142061 *C.* 1903 [2] 83).
- 3) Benzyläther d. 4-Chlor-2-Nitro-1-Oxybenzol. Sm. 86° (D.R.P. 142899 *C.* 1903 [2] 83).
- $C_{18}H_{10}O_3NBr$ *3) 4-Brom-2-Nitrobenzyläther d. Oxymethylbenzol. Sm. 88—89° (D.R.P. 142899 *C.* 1903 [2] 83).
- $C_{18}H_{10}O_3N_2S_2$ 1) 2-Thiocarbonyl-4-Keto-5-[2-Nitrobenzyliden]-3-Allyltetrahydrothiazol. Sm. 73° (*M.* 24, 513 *C.* 1903 [2] 837).
- 2) 2-Thiocarbonyl-4-Keto-5-[3-Nitrobenzyliden]-3-Allyltetrahydrothiazol. Sm. 145° (*M.* 25, 161 *C.* 1904 [1] 894).
- 3) 2-Thiocarbonyl-4-Keto-5-[4-Nitrobenzyliden]-3-Allyltetrahydrothiazol. Sm. 153° (*M.* 25, 162 *C.* 1904 [1] 894).
- $C_{18}H_{10}O_3N_3Cl$ 3) Azoverbindung (aus 4-Nitrodiazobenzol u. 6-Chlor-2-Oxy-1-Methylbenzol). Sm. 230° (*B.* 37, 1020 *C.* 1904 [1] 1202).
- $C_{18}H_{10}O_3N_3Br$ 6) α -Phenyl- β -[5-Brom-3-Nitro-2-Oxybenzyliden]hydrazin. Sm. 243° (*B.* 37, 3936 *C.* 1904 [2] 1596).
- 7) Azoverbindung (aus 4-Nitrodiazobenzol u. 6-Brom-2-Oxy-1-Methylbenzol). Sm. 215° (*B.* 37, 1022 *C.* 1904 [1] 1203).
- $C_{18}H_{10}O_4N_3Br$ 1) 4-Brom-2-Nitrophenyl-4-Nitrobenzylamin. Sm. 151° (*R.* 21, 430 *C.* 1903 [1] 506).
- 2) 2-Brom-4-Nitrophenyl-4-Nitrobenzylamin. Sm. 180° (*R.* 21, 429 *C.* 1903 [1] 506).
- 3) Phenylhydrazid d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 190° (*G.* 34 [1] 276 *C.* 1904 [1] 1499).
- $C_{18}H_{10}O_5N_2S$ 5) 1-[2-Nitrobenzyliden]amidobenzol-4-Sulfonsäure (D.R.P. 97948 *C.* 1898 [2] 742). — *III, 22.
- 6) 1-[4-Nitrobenzyliden]amidobenzol-4-Sulfonsäure (D.R.P. 97948 *C.* 1898 [2] 742). — *III, 22.
- $C_{18}H_{10}O_5N_3Cl$ 1) 3'-Chlor-4,6-Dinitro-4'-Oxy-3-Methyldiphenylamin. Sm. 176° (*B.* 37, 2093 *C.* 1904 [2] 34).
- $C_{18}H_{10}O_6N_2S$ 5) 2-Amid d. 4-Nitrobenzol-1-Carbonsäurephenylester-2-Sulfonsäure. Sm. 135° (*Am.* 30, 385 *C.* 1904 [1] 275).
- $C_{18}H_{10}ONClS$ 1) 4-Chlorphenylamid d. Benzolthiocarbonsäure. Sm. 146—147° (*J. pr.* [2] 67, 464 *C.* 1903 [1] 1422).
- $C_{18}H_{10}NBrS$ 1) Phenylamid d. 4-Brombenzol-1-Thiocarbonsäure. Sm. 161 bis 162° (*C.* 1904 [1] 1003).
- $C_{18}H_{10}N_2Cl_2S$ *2) s-Di[3-Chlorphenyl]thioharnstoff (*B.* 36, 197 *C.* 1903 [1] 450).
- *3) s-Di[4-Chlorphenyl]thioharnstoff. Sm. 141° (*B.* 36, 197 *C.* 1903 [1] 450).
- $C_{18}H_{10}N_2Br_2S$ 2) s-Di[3-Bromdiphenyl]thioharnstoff. Sm. 135° (*B.* 36, 197 *C.* 1903 [1] 450).
- $C_{18}H_{10}N_2Br_4S$ 1) Verbindung (aus s-Diphenylthioharnstoff). Sm. 136° (*B.* 36, 3127 *C.* 1903 [2] 1070).
- $C_{18}H_{11}ONCl_2$ 2) 2-Chlorbenzyläther d. 4-Chlor-2-Amido-1-Oxybenzol. HCl (D.R.P. 142061 *C.* 1903 [2] 83).
- $C_{18}H_{11}ONS_2$ 1) 2-Thiocarbonyl-4-Keto-3-Allyl-5-Benzylidentetrahydrothiazol. Sm. 144° (*M.* 24, 506 *C.* 1903 [2] 836).
- 2) 2-Thiocarbonyl-4-Keto-5-Cinnamyliden-3-Methyltetrahydrothiazol. Sm. 226° (*M.* 25, 172 *C.* 1904 [1] 895).
- $C_{18}H_{11}ON_2Cl$ *11) α -Phenyl- β -[5-Chlor-2-Oxybenzyliden]hydrazin. Sm. 148° (*B.* 37, 4025 *C.* 1904 [2] 1717).
- 15) α -Oximido- α -[4-Chlorphenyl]amido- α -Phenylmethan. Sm. 173 bis 174° + C_6H_5O , Pikrat (*J. pr.* [2] 67, 470 *C.* 1903 [1] 1422).
- 16) Chlorid d. $\beta\beta$ -Diphenylhydrazidoameisensäure (*B.* 36, 3156 *C.* 1903 [2] 1057).

- $C_{15}H_{11}ON_2Br$ *8) α -Phenyl- β -[5-Brom-2-Oxybenzyliden]hydrazin. Sm. 151° (B. 37, 3934 C. 1904 [2] 1596).
- $C_{15}H_{11}O_2NS_2$ 1) 2-Thiocarbonyl-4-Keto-3-Allyl-5-[2-Oxybenzyliden]tetrahydrothiazol. Sm. 179° (M. 24, 508 C. 1903 [2] 836).
- $C_{15}H_{11}O_2N_3S$ *1) s-3-Nitrodiphenylthioharnstoff. Sm. 155° (B. 36, 197 C. 1903 [1] 450; J. pr. [2] 67, 480 C. 1903 [1] 1407).
- $C_{15}H_{11}O_3NS$ *3) Benzoylamid d. Benzolsulfonsäure. Sm. 146° (B. 37, 693 C. 1904 [1] 1074).
- $C_{15}H_{11}O_3NS_2$ 1) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Aethyltetrahydrothiazol. Sm. 154° (M. 25, 177 C. 1904 [1] 895).
- $C_{15}H_{11}O_3N_4Br$ 1) 2-[4-Bromphenyl]-1,2,3,4-Tetrazin-6-Dimethylmalonsäure. Sm. 154° 2 + C_6H_6 (Soc. 83, 1255 C. 1903 [2] 1422).
- $C_{15}H_{11}O_3JS$ 1) 2-Jodphenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 73° (A. 332, 64 C. 1904 [2] 41).
- $C_{15}H_{11}O_4NS$ *4) 1-Phenylester d. Benzol-1-Carbonsäure-2-Sulfonsäureamid. Sm. 132° (Am. 30, 295 C. 1903 [2] 1121).
- 1) Phenylester d. Phenylsulfonamidoameisensäure. Sm. 123° (B. 37, 694 C. 1904 [1] 1074).
- 12) 2-Phenylester d. Benzol-1-Carbonsäureamid-2-Sulfonsäure. Sm. 95° (Am. 30, 300 C. 1903 [2] 1122).
- $C_{15}H_{11}O_5NS$ 8) Diphenylamin-2-Carbonsäure-3-Sulfonsäure. Na, Ba (D.R.P. 146102 C. 1903 [2] 1152).
- 9) Diphenylamin-2-Carbonsäure-4-Sulfonsäure. Na (D.R.P. 146102 C. 1903 [2] 1152).
- 10) Phenylester d. 4-Nitro-1-Methylbenzol-2-Sulfonsäure. Sm. 64° (Soc. 85, 1432 C. 1904 [2] 1740).
- $C_{15}H_{11}O_5N_5S$ 1) α -Phenylhydrazon- α -[4-Sulfophenyl]azo- α -Nitromethan. K (C. 1903 [2] 427).
- $C_{15}H_{11}O_6NS$ 6) 4'-Nitro-2-Methyldiphenyläther- β -Sulfonsäure. Sm. 115°. Na, K, Ba, Cu + $5H_2O$ (C. 1903 [1] 509).
- 7) 4'-Nitro-3-Methyldiphenyläther- β -Sulfonsäure. Sm. 135°. Ba, Cu + $4H_2O$ (Am. 28, 487 C. 1903 [1] 327).
- 8) 4'-Nitro-4-Methyldiphenyläther- β -Sulfonsäure. Sm. 102°. Na + $3\frac{1}{2}H_2O$, Ba + $2H_2O$ (C. 1903 [1] 634).
- $C_{15}H_{11}O_7N_5S$ 3) 2',4'-Dinitro-2-Methyldiphenylamin-5-Sulfonsäure. Na (B. 36, 34 C. 1903 [1] 521).
- 4) 2',4'-Dinitro-4-Methyldiphenylamin-3-Sulfonsäure. Na (B. 36, 34 C. 1903 [1] 521).
- $C_{15}H_{11}O_8N_2Cl_3$ 1) Diäthylester d. Trichlordinitrophenylmalonsäure. Sm. 82° (Am. 31, 381 C. 1904 [1] 1409).
- $C_{15}H_{11}N_2ClS$ *1) s-2-Chlordiphenylthioharnstoff. Sm. 165° (B. 36, 196 C. 1903 [1] 450).
- 2) s-3-Chlordiphenylthioharnstoff. Sm. 120° (B. 36, 196 C. 1903 [1] 450).
- 3) s-4-Chlordiphenylthioharnstoff. Sm. 152° (B. 36, 197 C. 1903 [1] 450).
- $C_{15}H_{11}N_2BrS$ 2) s-2-Bromdiphenylthioharnstoff. Sm. 161° (144°) (B. 36, 196 C. 1903 [1] 450).
- 3) s-3-Bromdiphenylthioharnstoff. Sm. oberh. 120° (B. 36, 196 C. 1903 [1] 450).
- $C_{15}H_{11}ClBrJ$ 1) 3'-Brom-2-Methyldiphenyljodoniumchlorid. Sm. 170°. + $HgCl_2$, 2 + $PtCl_4$ (J. pr. [2] 69, 330 C. 1904 [2] 36).
- 2) 3'-Brom-4-Methyldiphenyljodoniumchlorid. Sm. 174,5°. + $HgCl_2$, 2 + $PtCl_4$ (J. pr. [2] 69, 329 C. 1904 [2] 36).
- $C_{15}H_{12}ONCl$ *1) Äethyläther d. α -Chlorimido- α -Oxy- α -[2-Naphtyl]methan. Sm. 71° (Am. 29, 317 C. 1903 [1] 1167).
- 4) 2-Chlor-1-[2-Oxybenzyl]amidobenzol. Sm. 118° (Ar. 240, 689 C. 1903 [1] 395).
- 5) 4-Chlor-1-[2-Oxybenzyl]amidobenzol. Sm. 121° (Ar. 240, 684 C. 1903 [1] 395).
- 6) Benzyläther d. 4-Chlor-2-Amido-1-Oxybenzol. HCl (D.R.P. 142899 C. 1903 [2] 83).

- $C_{13}H_{12}ONCl$ 7) 2-Amidophenyläther d. 2-Chlor-1-Oxymethylbenzol. HCl (D. R. P. 142061 *C.* 1903 [2] 83).
- 8) 2-Amidophenyläther d. 4-Chlor-1-Oxymethylbenzol. HCl (D. R. P. 142061 *C.* 1903 [2] 83).
- $C_{13}H_{12}ONCl_3$ 1) 4-Methyl-2- $[\gamma\gamma\gamma$ -Trichlor- β -Oxypropyl]chinolin. Sm. 126° (*B.* 37, 1330 *C.* 1904 [1] 1360).
- $C_{13}H_{12}ONBr$ *6) Äthyläther d. α -Bromimido- α -Oxy- α -[2-Naphtyl]methan. Sm. 76,5—77° (*Am.* 29, 318 *C.* 1903 [1] 1167).
- 9) 4-Brom-1-[2-Oxybenzyl]amidobenzol. Sm. 126° (*Ar.* 240, 685 *C.* 1903 [1] 395).
- 10) Benzyläther d. 4-Brom-2-Amido-1-Oxybenzol. HCl (D. R. P. 142899 *C.* 1903 [2] 83).
- $C_{13}H_{12}OBrJ$ 1) 3'-Brom-2-Methyldiphenyljodoniumhydroxyd. Salze siehe (*J. pr.* [2] 69, 330 *C.* 1904 [2] 36).
- 2) 3'-Brom-4-Methyldiphenyljodoniumhydroxyd. Salze siehe (*J. pr.* [2] 69, 329 *C.* 1904 [2] 36).
- $C_{13}H_{12}O_2NCl$ 5) Acetat d. ε -[4-Chlorphenyl]imido- α -Oxy- $\alpha\gamma$ -Pentadiën. Sm. 129° (*A.* 333, 322 *C.* 1904 [2] 1149).
- $C_{13}H_{12}O_2N_2S$ 12) 2-Naphthylpseudothiohydantoinsäure. Sm. 195—230° (*C.* 1903 [2] 110).
- $C_{13}H_{12}O_2N_2S$ 11) α -Phenylsulfon- β -Phenylharnstoff. Sm. 158,4° (*B.* 37, 695 *C.* 1904 [1] 1074).
- 12) 1-[4-Amidobenzyliden]amidobenzol-4-Sulfonsäure (D. R. P. 99542 *C.* 1899 [1] 238). — *III, 22.
- $C_{13}H_{12}O_4N_2S$ 12) 2-Methylphenylamid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 164° (*Soc.* 85, 1187 *C.* 1904 [2] 1115).
- 13) 4-Methylphenylamid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 132° (*Soc.* 85, 1187 *C.* 1904 [2] 1115).
- $C_{13}H_{12}O_6N_2S$ 6) 3-Nitrobenzylidenphenylaminbisulfit. Sm. 177° (*A.* 316, 141). — *III, 21.
- 7) 5-Nitro-2-Phenylamidophenylmethan- α -Sulfonsäure. Anilinsalz (D. R. P. 150366 *C.* 1904 [1] 1308).
- $C_{13}H_{12}O_5N_2S_2$ 2) $\alpha\beta$ -Di[Phenylsulfon]harnstoff. Sm. 159° (*B.* 37, 695 *C.* 1904 [1] 1074).
- $C_{13}H_{12}O_5N_2S$ 1) 7-Phenylazo-2,6-Diketo-1,3-Dimethylpurin-7¹-Sulfonsäure. Sm. noch nicht bei 265° (*B.* 37, 704 *C.* 1904 [1] 1562).
- $C_{13}H_{12}O_6N_4S$ 1) Amid d. 2',4'-Dinitro-2-Methyldiphenylamin-5-Sulfonsäure. Sm. 209° (*B.* 36, 34 *C.* 1903 [1] 521).
- 2) Amid d. 2',4'-Dinitro-4-Methyldiphenylamin-3-Sulfonsäure. Sm. 255° (*B.* 36, 34 *C.* 1903 [1] 521).
- $C_{13}H_{12}O_8N_4S_2$ 4) 4'-Nitro-2'-Thioureido-4-Oxydiphenylamin-3-Sulfonsäure. (D. R. P. 139679 *C.* 1903 [1] 748).
- $C_{13}H_{12}O_8N_2Br_2$ 3) Diäthylester d. β -Dibrom- β -Dinitrophenylmethan- $\alpha\alpha$ -Dicarbonsäure (aus 3,4,5-Tribrom-1,2-Dinitrobenzol). Sm. 103—104° (*Am.* 30, 74 *C.* 1903 [2] 355).
- $C_{13}H_{12}N_3ClS$ 5) anti- α -Phenylamido- β -[3-Chlorphenyl]thioharnstoff. Sm. 120° (*B.* 32, 1084).
- 6) syn- α -Phenylamido- β -[3-Chlorphenyl]thioharnstoff. Sm. 168° (*B.* 32, 1084).
- 7) anti- α -Phenylamido- β -[4-Chlorphenyl]thioharnstoff. Sm. 133° (*B.* 32, 1084).
- 8) syn- α -Phenylamido- β -[4-Chlorphenyl]thioharnstoff. Sm. 165° (*B.* 32, 1084).
- $C_{13}H_{13}ON_2Cl$ *2) Phenylamid d. Chlorpyridyliumessigsäure. Sm. 234° u. Zers. + $HgCl_2$, 2 + $PtCl_4$, + $AuCl_3$ (*Ar.* 241, 124 *C.* 1903 [1] 1023).
- $C_{13}H_{13}ON_2Br$ 1) Phenylamid d. Brompyridyliumessigsäure. Sm. 199—200° (*Ar.* 241, 124 *C.* 1903 [1] 1023).
- $C_{13}H_{13}ON_2P$ 1) Phenylamid-4-Methylphenylimid d. Phosphorsäure. Sm. 188° (*Soc.* 83, 1045 *C.* 1903 [2] 663).
- $C_{13}H_{13}O_2NS$ *7) Methylphenylamid d. Benzolsulfonsäure. Sm. 77,5—78° (*B.* 36, 2706 *C.* 1903 [2] 829).
- 13) 3-Methylphenylamid d. Benzolsulfonsäure. Sm. 95° (*C.* 1904 [1] 1075; *Soc.* 85, 375 *C.* 1904 [1] 1412).

- $C_{13}H_{13}O_2NS_2$ 1) Methyläther d. 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden]-3-Aethyltetrahydrothiazol. Sm. 143° (*M.* 25, 175 *C.* 1904 [1] 895).
- $C_{13}H_{13}O_2N_2Cl$ 2) Aethylester d. 5-Chlor-3-Methyl-1-Phenylpyrazol-1²-Carbon-säure. Sd. 315° (*B.* 37, 2230 *C.* 1904 [2] 229).
- $C_{13}H_{13}O_2N_3S$ 1) Aethyläther d. 5-Benzoylamido-2-Merkapto-4-Keto-3,4-Di-hydro-1,3-Diazin. Sm. 238—239° (*Am.* 32, 144 *C.* 1904 [2] 957).
- $C_{13}H_{13}O_3NS$ 17) α -Phenylamido- α -Phenylmethan- α -Sulfonsäure. Na, Anilinsalz (*B.* 37, 4080, 4083 *C.* 1904 [2] 1722).
- 18) 4-Methoxyphenylamid d. Benzolsulfonsäure. Sm. 95—96° (*B.* 37, 2810 *C.* 1904 [2] 592).
- $C_{13}H_{13}O_3NS_2$ 1) 5³-Methyläther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxyben-zyliiden]-3-Aethyltetrahydrothiazol. Sm. 140° (*M.* 25, 176 *C.* 1904 [1] 895).
- $C_{13}H_{13}O_4NS$ 5) 2-Oxybenzylidenamidobenzolbisulfit. Sm. 128° (*A.* 316, 142). — *III, 52.
- $C_{13}H_{13}O_5N_2J$ 1) Diäthylester d. 3-Jod-4,6-DinitrophenylmethandicarbonsäureP Sm. 83° (*Am.* 32, 305 *C.* 1904 [2] 1385).
- $C_{13}H_{14}ON_2Cl_4$ 1) Verbindung (aus d. Chlormethyläther d. $\alpha\beta$ -Trichlor- α -Oxyäthan u. 2 Molec. Pyridin). + $PtCl_4$ (*A.* 330, 130 *C.* 1904 [1] 1064).
- $C_{13}H_{14}O_2NBr$ 5) Aethyläther d. 5-Brom-6-Oxy-2-Keto-1-Aethyl-1,2-Dihydro-chinolin. Sm. 95—97° (*B.* 36, 461 *C.* 1903 [1] 590).
- $C_{13}H_{14}O_2N_2S$ 7) 2-[2,4-Dimethylphenyl]imido-4-Keto-3-Acetyltetrahydro-thiazol. Sm. 165—166° u. Zers. (*C.* 1903 [2] 110).
- $C_{13}H_{14}O_3N_2S$ 3) Verbindung (aus Dicyanbenzoylessigsäureäthylester). Sm. 160° (*A.* 332, 151 *C.* 1904 [2] 192).
- $C_{13}H_{14}O_4NJ$ 1) Verbindung (aus Dehydracetsäure u. Pyridin). Sm. 234° u. Zers. (*G.* 34 [1] 344 *C.* 1904 [2] 194).
- $C_{13}H_{14}O_5NCl$ *1) Diacetat d. 4[oder 6]-Chlor-6[oder 4]-Acetylamido-2,5-Dioxy-1-Methylbenzol. Sm. 197—198° (*A.* 328, 318 *C.* 1903 [2] 1247).
- $C_{13}H_{14}O_7N_4S_2$ 1) 4,4'-Diamido-5-Diphenylharnstoff-3,3'-Dicarbonsäure (D.R.P. 140613 *C.* 1903 [1] 1010).
- $C_{13}H_{14}N_2ClBr$ 1) 2-Chlorallylat d. 5-Brom-3-Methyl-1-Phenylpyrazol. Sm. 182° (*A.* 331, 212 *C.* 1904 [1] 1219).
- $C_{13}H_{14}N_2ClJ$ 1) 2-Chlorallylat d. 5-Jod-3-Methyl-1-Phenylpyrazol. Sm. 193 bis 194° (*A.* 331, 213 *C.* 1904 [1] 1219).
- $C_{13}H_{15}ONBr_2$ 2) Bromäthylat d. 5-Brom-6-Oxychinolinäthyläther + $3H_2O$. Sm. 80—85° (195° wasserfrei) (*B.* 36, 460 *C.* 1903 [1] 590).
- $C_{13}H_{15}ONS_2$ 1) Gem. Anhydrid d. Benzolcarbonsäure u. Hexahydropyridin-1-Dithiocarbonsäure (N-Piperidyl-S-Benzoyldithiourethan). Sm. 89 bis 90° (*B.* 36, 3523 *C.* 1903 [2] 1326).
- $C_{13}H_{15}ON_2Cl_3$ 1) Verbindung (aus d. Chlormethyläther d. $\alpha\beta$ -Dichlor- α -Oxyäthan u. 2 Molec. Pyridin). + $PtCl_4$, 2 + $AuCl_3$ (*A.* 330, 129 *C.* 1904 [1] 1064).
- $C_{13}H_{15}ON_3S$ 1) Diäthyläther d. 5-Merkapto-3-Oxy-1-Phenyl-1,3,5-Triazin. Sm. 47—48° (*Am.* 32, 370 *C.* 1904 [2] 1506).
- $C_{13}H_{15}O_3N_2Cl_3$ *1) Chloralantipyridin. Sm. 67—68° (*C.* 1903 [2] 19).
- $C_{13}H_{15}O_3N_2Br$ 2) Propyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydro-chinolin (*J. pr.* [2] 45, 186). — IV, 265.
- 3) Isopropyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydro-chinolin. Sm. 95° (*J. pr.* [2] 45, 187). — IV, 265.
- $C_{13}H_{15}O_3N_3S$ 1) Aethylester d. 2-Phenylimido-5-Oxy-2,3-Dihydro-1,3,4-Thio-diazol-3-[Aethyl- α -Carbonsäure]. Sm. 171°. Na (*C.* 1904 [2] 1028).
- $C_{13}H_{15}O_4N_2Cl$ 2) α -Chloracetylamidoacetylamido- β -Phenylpropionsäure. Sm. 151 bis 152° (*B.* 37, 3315 *C.* 1904 [2] 1307).
- $C_{13}H_{15}O_4N_2Br$ 1) α -Brom- β -Phenylpropionylamidoacetylamidoessigsäure. Sm. 157 bis 158° (*B.* 37, 3066 *C.* 1904 [2] 1207).
- $C_{13}H_{15}O_5NS$ 1) 4-Methylbenzolsulfonat d. α -Cyan- β -Oxypropen- α -Carbonsäure. Sm. 116° (*Bl.* [3] 31, 340 *C.* 1904 [1] 1135).
- $C_{13}H_{15}O_5BrS$ 1) $\alpha\gamma$ -Sulton d. β -Brom- α -Oxy- α -Phenylbutan- γ -Sulfonsäure- δ -Car-bonsäureäthylester. Sm. 121° (*Am.* 31, 255 *C.* 1904 [1] 1081).
- $C_{13}H_{16}ONBr$ 2) 8-Brom-5-Propionylamido-1,2,3,4-Tetrahydronaphtalin. Sm. 185—186° (*Soc.* 85, 746 *C.* 1904 [2] 447).

- $C_{13}H_{16}ON_2Cl_2$ 1) Verbindung (aus d. Chlormethyläther d. α -Chlor- α -Oxyäthan und Pyridin). + $PtCl_3$, + $2AuCl_3$ (A. 330, 125 C. 1904 [1] 1064).
- $C_{13}H_{16}O_2NBr$ 3) 3-Brom-4-Methylphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 75–76°; Sd. 262°₄₄ (B. [3] 29, 754 C. 1903 [2] 629).
- $C_{13}H_{18}O_2N_2Cl_2$ 1) Verbindung (aus d. Methylenäther d. Chloroxymethan u. Pyridin). + $PtCl_3$, + $2AuCl_3$ (A. 334, 37 C. 1904 [2] 948).
- $C_{13}H_{16}O_2N_2S$ 2) 5-Isopropylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 83° (A. 331, 236 C. 1904 [1] 1221).
- 3) 5-Aethylsulfon-3,4-Dimethyl-1-Phenylpyrazol. Sm. 115° (A. 331, 244 C. 1904 [1] 1221).
- $C_{13}H_{16}O_4NCl$ 1) Aethylester d. 1- α -Chloracetylamido- β -[4-Oxyphenyl]propionsäure. Sm. 87–88° (B. 37, 2495 C. 1904 [2] 425).
- $C_{13}H_{17}ON_2S$ 1) 1-Phenylamido-2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Aethyl-tetrahydroimidazol. Sm. 85° (C. 1904 [2] 1028).
- $C_{13}H_{17}O_2NBr_2$ 2) Acetat d. Diäthyl-3,5-Dibrom-2-Oxybenzylamin (A. 332, 221 C. 1904 [2] 203).
- $C_{13}H_{17}O_2N_2Br$ 1) Methylester d. γ -[4-Bromphenyl]hydrazon- β -Methylbutan- β -Carbonsäure. Sm. 90° (Soc. 83, 1231 C. 1903 [2] 1420).
- $C_{13}H_{17}O_6N_2Cl$ 1) 4-Chlorbenzoylhydrazon d. d-Glykose. Zers. bei 211° (C. 1904 [2] 1493).
- $C_{13}H_{17}O_6N_2Br$ 1) 4-Brombenzoylhydrazon d. d-Galaktose. Zers. bei 216° (C. 1904 [2] 1493).
- 2) 4-Brombenzoylhydrazon d. d-Glykose. Zers. bei 206–207° (C. 1904 [2] 1493).
- 3) 4-Brombenzoylhydrazon d. d-Mannose (C. 1904 [2] 1493).
- $C_{13}H_{17}N_2ClS$ 1) 2-Chlormethylat d. 5-Merkapto-3,4-Dimethyl-1-Phenylpyrazol-5-Methyläther. Sm. 91°. 2 + $PtCl_4$ (A. 331, 218 C. 1904 [1] 1219).
- $C_{13}H_{17}N_2JS$ 2) 2-Jodmethylat d. 5-Merkapto-3,4-Dimethyl-1-Phenylpyrazol-5-Methyläther. Sm. 167° (A. 331, 218 C. 1904 [1] 1219).
- 3) 2-Jodmethylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Aethyläther. Sm. 158° (A. 331, 201, 234 C. 1904 [1] 1218).
- 4) 2-Jodäthylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Methyläther. Sm. 203° (A. 331, 209, 227 C. 1904 [1] 1219).
- $C_{13}H_{18}ONCl$ 2) Nitrosochlorid d. α -[2,4,6-Trimethylphenyl]- β -Methylpropen. Sm. 136° (B. 37, 929 C. 1904 [1] 1209).
- $C_{13}H_{18}ON_2S$ 4) s-Caproylphenylthioharnstoff. Sm. 77–78° (Soc. 85, 809 C. 1904 [2] 201, 519).
- $C_{13}H_{18}O_2NCl$ 2) Chlormethylat d. 1,2,3,4-Tetrahydrochinolin-1-Essigsäuremethylester. 2 + $PtCl_4$ (Soc. 83, 1417 C. 1904 [1] 439).
- $C_{13}H_{18}O_4NJ$ 2) Jodmethylat d. 3,4,5-Trioxo-1-[β -Dimethylamidoäthyl]benzol-4,5-Methylenäther-2-Carbonsäurealdehyd (Norcotarnimethinmethyljodid). Sm. 272° (B. 36, 1529 C. 1903 [2] 52).
- $C_{13}H_{18}O_6N_2S$ 1) Tetraoxybutyl-N-Phenylthiohydantoinsäure. Sm. 178–180° u. Zers. (B. 35, 4014 C. 1903 [1] 390).
- $C_{13}H_{19}O_2NS$ 4) Sultam d. γ -Oxy- γ -Phenylpentan- γ^2 -Sulfonsäureäthylamid. Sm. 140–150° (B. 37, 3259 C. 1904 [2] 1031).
- $C_{13}H_{19}O_2N_2Cl$ 2) Verbindung (aus Chlordimethyläther u. Cytisin). + $AuCl_3$ (A. 334, 56 C. 1904 [2] 949).
- $C_{13}H_{20}O_2NBr$ 1) Menthylester d. Bromcyanessigsäure. Sm. 134–135° (C. 1903 [1] 566; Soc. 85, 44 C. 1904 [1] 789).
- $C_{13}H_{20}O_3NP$ 1) Diäthylester d. 1,2,3,4-Tetrahydro-1-Chinoylphosphinsäure. Sd. 155°₃ (A. 326, 188 C. 1903 [1] 820).
- $C_{13}H_{20}O_3NP$ 1) Triäthylester d. Phenylamidophosphinsäure-3-Carbonsäure. Sd. 232–234° (A. 326, 242 C. 1903 [1] 868).
- 2) Triäthylester d. Phenylamidophosphinsäure-4-Carbonsäure. Sd. 206–207° (A. 326, 244 C. 1903 [1] 868).
- $C_{13}H_{21}O_3N_2J$ 3) Jodäthylat d. Isopilocarpin (B. 35, 2454). — *III, 685.
- $C_{13}H_{21}O_3NS$ 3) Aethylamid d. γ -Oxy- γ -Phenylpentan- γ^2 -Sulfonsäure. Sm. 99 bis 100° (B. 37, 3258 C. 1904 [2] 1031).
- 4) Verbindung (aus Aethylsaccharin). Sm. 99–100° (B. 37, 389 C. 1904 [1] 669).
- $C_{13}H_{26}ONJ$ 1) Jodmethylat d. Dimethylupinin. Fl. (B. 35, 1924). — *III, 664.
- $C_{13}H_{26}O_4NBr$ 1) Brommethylat d. δ -Dimethylamidobutan- $\alpha\alpha$ -Dicarbonsäure-diäthylester (B. 37, 1855 C. 1904 [1] 1487).

- $C_{13}H_{29}O_2N_2P$ 1) Aethyläther d. Dipiperidylmethoxyphosphoniumhydroxyd (A. 326, 167 C. 1903 [1] 762).
- $C_{13}H_{31}ON_2P$ 1) Di[Dipropylamid] d. Methylphosphinsäure. Sd. 176—180°₂₅ (A. 326, 165 C. 1903 [1] 762).

— 13 V —

- $C_{13}H_6O_5N_2ClBr$ 1) 4'-Chlor-3-Brom-*p*-Dinitrodiphenylketon. Sm. 165° (B. 37, 3486 C. 1904 [2] 1131).
- $C_{13}H_7ONClBr_3$ 1) 2,4,6-Tribromphenylechloramid d. Benzolcarbonsäure. Sm. 115° (Soc. 85, 181 C. 1904 [1] 938).
- $C_{13}H_7ONCl_2Br_2$ 1) 2-Chlor-4,6-Dibromphenylechloramid d. Benzolcarbonsäure. Sm. 97° (Soc. 85, 182 C. 1904 [1] 938).
- 2) 4-Chlor-2,6-Dibromphenylechloramid d. Benzolcarbonsäure. Sm. 111° (Soc. 85, 181 C. 1904 [1] 938).
- $C_{13}H_7ONCl_3Br$ 1) 2,4-Dichlor-6-Bromphenylechloramid d. Benzolcarbonsäure. Sm. 92° (Soc. 85, 182 C. 1904 [1] 938).
- 2) 2,6-Dichlor-4-Bromphenylechloramid d. Benzolcarbonsäure. Sm. 95° (Soc. 85, 181 C. 1904 [1] 938).
- $C_{13}H_3ONClBr_2$ 1) 2-Chlor-4,6-Dibromphenylamid d. Benzolcarbonsäure. Sm. 192° (Soc. 85, 182 C. 1904 [1] 938).
- 2) 4-Chlor-2,6-Dibromphenylamid d. Benzolcarbonsäure. Sm. 194° (Soc. 85, 181 C. 1904 [1] 938).
- $C_{13}H_3ONCl_2Br$ 1) 2,6-Dichlor-4-Bromphenylamid d. Benzolcarbonsäure. Sm. 195° (Soc. 85, 181 C. 1904 [1] 938).
- 2) 2-Chlor-4-Bromphenylechloramid d. Benzolcarbonsäure. Sm. 74° (Soc. 85, 180 C. 1904 [1] 938).
- 3) 4-Chlor-2-Bromphenylechloramid d. Benzolcarbonsäure. Sm. 62° (Soc. 85, 180 C. 1904 [1] 938).
- $C_{13}H_3O_3NBrS$ 1) Phenylimid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 184,5° (Am. 30, 493 C. 1904 [1] 370).
- $C_{13}H_3O_3NCl_2S$ 1) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäurephenylester-2-Sulfonsäure. Sm. 145—147° (Am. 30, 375 C. 1904 [1] 275).
- $C_{13}H_5ONClBr$ 4) 2-Chlor-4-Bromphenylamid d. Benzolcarbonsäure. Sm. 145° (Soc. 85, 180 C. 1904 [1] 938).
- 5) 4-Chlor-2-Bromphenylamid d. Benzolcarbonsäure. Sm. 130,5° (Soc. 85, 180 C. 1904 [1] 938).
- $C_{13}H_{10}O_2NCl_2S$ 1) 2,4-Dichlorphenylechloramid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 81° (Soc. 85, 1186 C. 1904 [2] 1115).
- $C_{13}H_{11}O_2NCl_2S$ 1) 4-Chlorphenylechloramid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 102° (Soc. 85, 1185 C. 1904 [2] 1115).
- 2) 2,4-Dichlorphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 126° (Soc. 85, 1186 C. 1904 [2] 1115).
- 3) 2,4-Dichlor-3-Methylphenylamid d. Benzolsulfonsäure. Sm. 114° (C. 1904 [1] 1075; Soc. 85, 376 C. 1904 [1] 1412).
- $C_{13}H_{11}O_4N_2ClS$ 3) 2-Methylphenylechloramid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 118° u. Zers. (Soc. 85, 1187 C. 1904 [2] 1115).
- 4) 4-Methylphenylechloramid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 115° (Soc. 85, 1187 C. 1904 [2] 1115).
- $C_{13}H_{12}O_2NClS$ 5) Phenylechloramid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 91° (Soc. 85, 1184 C. 1904 [2] 1115).
- 6) 4-Chlorphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 95° (Soc. 85, 1184 C. 1904 [2] 1115).
- 7) 5-Chlor-2-Methylphenylamid d. Benzolsulfonsäure. Sm. 124 bis 125° (C. 1904 [1] 1075; Soc. 85, 374 C. 1904 [1] 1412).
- 8) 4-Chlor-3-Methylphenylamid d. Benzolsulfonsäure. Sm. 130°. Na (C. 1904 [1] 1075; Soc. 85, 375 C. 1904 [1] 1412).
- 9) 2-Chlor-4-Methylphenylamid d. Benzolsulfonsäure. Sm. 110° (C. 1904 [1] 1075; Soc. 85, 376 C. 1904 [1] 1412).
- 10) 2-Methylphenylechloramid d. Benzolsulfonsäure. Sm. 99—100° (106°) (C. 1904 [1] 1075; Soc. 85, 374 C. 1904 [1] 1411; Soc. 85, 1186 C. 1904 [2] 1115).
- 11) 4-Methylphenylechloramid d. Benzolsulfonsäure. Sm. 86° (Soc. 85, 1186 C. 1904 [2] 1115).

- $C_{15}H_{12}O_2NJS$ 1) Methylphenylamid d. 4-Joibenzol-1-Sulfonsäure. Sm. 111° (A. 332, 58 C. 1904 [2] 41).
 2) 3-Jodphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 128° (A. 332, 61 C. 1904 [2] 41).
- $C_{15}H_{13}O_2NCIP$ 1) 4 - Methylphenylmonamid d. Phenylphosphorsäurechlorid. Sm. 77° (A. 326, 237 C. 1903 [1] 867).
- $C_{15}H_{15}O_3NBrP$ 1) 4 - Bromphenylmonamid d. Phosphorsäuremono[4 - Methylphenylester]. Sm. 230° (A. 326, 233 C. 1903 [1] 867).
- $C_{15}H_{15}O_3N_2ClS$ 1) β -Chlorpropylthiopyrintrioxyd + H_2O . Sm. 244° u. Zers. (A. 331, 214 C. 1904 [1] 1219).
- $C_{15}H_{17}O_2N_2ClS$ 1) Chlormethylat d. 5-Methylsulfon-3,4-Dimethyl-1-Phenylpyrazol. Sm. 81°. 2 + $PtCl_4$ (A. 331, 243 C. 1904 [1] 1221).
- $C_{15}H_{17}O_2N_2JS$ 1) Jodmethylat d. 5-Methylsulfon-3,4-Dimethyl-1-Phenylpyrazol. Sm. 188° (A. 331, 242 C. 1904 [1] 1221).
- $C_{15}H_{17}O_4NBrJ$ 1) Jodmethylat d. 6 - Brom - 3, 4, 5 - Trioxy - 1-[β -Dimethylamido-äthyl]benzol - 3 - Methyläther - 4, 5 - Methylenäther - 2 - Carbonsäurealdehyd (Bromnecotarninmethinmethyljodid). Zers. bei 264° (B. 36, 1535 C. 1903 [2] 52).
- $C_{15}H_{28}ON_2JS$ 1) Äthyläther d. Dipiperidylmethyloxyphosphoniumjodid (A. 326, 166 C. 1903 [1] 762).

— 13 VI —

- $C_{15}H_{15}ONClSP$ 1) Benzylmonamid d. Phenylthiophosphorsäuremonochlorid. Fl. (A. 326, 205 C. 1903 [1] 821).

C₁₄-Gruppe.

- $C_{14}H_{10}$ *1) Anthracen (D.R.P. 141 186 C. 1903 [1] 1197).
 *3) Phenanthren (B. 37, 4145 C. 1904 [2] 1655).
- $C_{14}H_{12}$ *2) $\alpha\alpha$ -Diphenyläthen (B. 37, 1449 C. 1904 [1] 1352).
 *3) Stilben. Sm. 124—125° (B. 36, 1194 C. 1903 [1] 1179; B. 36, 4266 C. 1904 [1] 374; E. 21, 449 C. 1903 [1] 503; B. 37, 453 C. 1904 [1] 949).
 9) Kohlenwasserstoff (aus Phenylpropolsäurechlorid). Sm. 95° (Soc. 85, 1325 C. 1904 [2] 1645).
- $C_{14}H_{14}$ *1) $\alpha\alpha$ -Diphenyläthan. Sd. 268—270° (B. 37, 1450 C. 1904 [1] 1352).
 *4) 2,2'-Dimethylbiphenyl. Sm. 17,8°; Sd. 258°₇₃₇ (A. 332, 42 C. 1904 [2] 39).
 *6) 3,3'-Dimethylbiphenyl. Sd. 283°₇₁₈ (B. 37, 1401 C. 1904 [1] 1443; A. 332, 43 C. 1904 [2] 39).
 *7) 4,4'-Dimethylbiphenyl. Sm. 121° (122°); Sd. 295°₇₆₀ (B. 36, 1011 C. 1903 [1] 1078; A. 322, 44 C. 1904 [2] 39).
 19) Tetrahydroanthracen. Sm. 89°; Sd. 309—313° (C. r. 139, 605 C. 1904 [2] 1573).
- $C_{14}H_{18}$ 6) Oktohydroanthracen. Sm. 71°; Sd. 292—295°. Pikrat (C. r. 139, 605 C. 1904 [2] 1574).
 7) Kohlenwasserstoff (aus α -Oxy- α -Phenyl- α -Hexahydrophenyläthan). Sd. 260°₇₅₅ (C. r. 139, 345 C. 1904 [2] 705).
- $C_{14}H_{20}$ C 89,4 — H 10,6 — M. G. 188.
 1) γ -Phenyl- δ -Okten. Sd. 104°₈ (B. 36, 1406 C. 1903 [1] 1347).
 2) α [2,4,6-Trimethylphenyl]- γ -Methyl- α -Buten. Sd. 239—240°₇₅₃ (B. 37, 930 C. 1904 [1] 1209).
- $C_{14}H_{22}$ *4) 1,4-Dipseudobutylbenzol. Sm. 76°; Sd. 236,5° (Bl. [3] 31, 969 C. 1904 [2] 1112).
 *8) 1,2,4,5-Tetraäthylbenzol. Sd. 248°₇₅₅ (B. 36, 1635 C. 1903 [2] 26).
 13) 2-Isomyl-1,3,5-Trimethylbenzol. Sd. 241—243°₇₄₇ (B. 37, 1720 C. 1904 [1] 1489).
- $C_{14}H_{24}$ *9) bim. $\beta\delta$ -Dimethyl- $\alpha\gamma$ -Pentadien. Sd. 98—100°₁₂ (B. 37, 3579 C. 1904 [2] 1376).
 10) 2-Methyl-6-[3-Methylhexahydrophenyl]-1,2,3,4-Tetrahydrobenzol. Sd. 257—259° (C. 1904 [1] 1346).

- $C_{14}H_{24}$ 11) 4-[β -Aethylbutenyl]-1,1,5-Trimethyl-2,3-Dihydro-R-Penten (Diäthyl-campholanden). *Sd.* 222—224° (*Bl.* [3] 31, 463 *C.* 1904 [1] 1516).
- $C_{14}H_{26}$ *8) 3,3-Dimethyldodekahydrobiphenyl. *Sd.* 264—266° (*B.* 37, 853 *C.* 1904 [1] 1146).
- 10) Disuberyl (Bi-R-Heptamethylenyl). *Sd.* 290—291°₇₂₈ (*C.* 1903 [1] 568; *A.* 327, 70 *C.* 1903 [1] 1124).
- 11) Kohlenwasserstoff (aus Butyronpinakon). *Sd.* 216—218° (*M.* 25, 125 *C.* 1904 [1] 716).
- 12) Kohlenwasserstoff (aus Petroleum). *Sd.* 160—165°₆₀ (*C.* 1904 [1] 61).

— 14 II —

- $C_{14}H_5O_4$ 2) Morphenolechinon (*B.* 33, 357). — *III, 321.
- $C_{14}H_6O_5$ *1) Ellagsäure. Na_2 , K , K_2 (*B.* 36, 212 *C.* 1903 [1] 456; *Soc.* 83, 133 *C.* 1903 [1] 89, 466; *D.R.P.* 137033, 137034 *C.* 1903 [1] 111).
- $C_{14}H_6Cl_4$ *2) α -Tetrachloranthracen. *Sm.* 163° (*C. r.* 135, 1122 *C.* 1903 [1] 283).
- $C_{14}H_5O_2$ *2) 1,2-Anthrachinon (*B.* 36, 4020 *C.* 1904 [1] 168).
- $C_{14}H_5O_3$ *2) 1-Oxy-9,10-Anthrachinon (*D.R.P.* 145238 *C.* 1903 [2] 1099).
- *8) 9-Ketofluoren-2-Carbonsäure. *subl. oberh.* 275° (*M.* 25, 451 *C.* 1904 [2] 450).
- $C_{14}H_3O_4$ *4) 1,4-Dioxy-9,10-Anthrachinon (Chinizarin) (*D.R.P.* 146223 *C.* 1903 [2] 1299; *D.R.P.* 153129 *C.* 1904 [2] 751).
- *5) 1,5-Dioxy-9,10-Anthrachinon (*D.R.P.* 145238 *C.* 1903 [2] 1099).
- *6) Chrysazin. K (*D.R.P.* 145238 *C.* 1903 [2] 1099; *B.* 36, 2941 *C.* 1903 [2] 886; *B.* 36, 4198 *C.* 1904 [1] 290).
- *8) 1,7-Dioxy-9,10-Anthrachinon. *Sm.* 292—293° (*B.* 36, 4198 *C.* 1904 [1] 290).
- *10) Anthraflavinsäure (*D.R.P.* 137948 *C.* 1903 [1] 268; *D.R.P.* 140128 *C.* 1903 [1] 903).
- *12) 2,7-Dioxy-9,10-Phenanthrenchinon. *Sm. oberh.* 400° u. *Zers.* (*B.* 36, 3741 *C.* 1904 [1] 37; *B.* 37, 3087 *C.* 1904 [2] 1056).
- 19) 1,6-Dioxy-9,10-Anthrachinon. *Sm.* 260° (*D.R.P.* 145188 *C.* 1903 [2] 1037).
- 20) 3,4-Dioxy-9,10-Phenanthrenchinon (Morpholechinon) (*B.* 32, 1522, 2379 *Anm.*; 33, 352, 1810). — *III, 318.
- 21) 4,5-Dioxy-9,10-Phenanthrenchinon. *Zers. oberh.* 400° (*B.* 36, 3750 *C.* 1904 [1] 38).
- 22) 3,4- β -Naphtopyron-2-Carbonsäure (β -Naphtocumarin- α -Carbonsäure). *Sm.* 234° (*B.* 36, 1972 *C.* 1903 [2] 377).
- 23) Anhydrid d. 4-Acetylnaphtalin-1,8-Dicarbonsäure. *Sm.* 189° (*A.* 327, 94 *C.* 1903 [1] 1228).
- $C_{14}H_5O_5$ *4) Flavopurpurin (*D.R.P.* 137948 *C.* 1903 [1] 268; *D.R.P.* 140127 *C.* 1903 [1] 903; *D.R.P.* 140129 *C.* 1903 [1] 904).
- 1) 1,2,4-Trioxy-9,10-Anthrachinon (*D.R.P.* 153129 *C.* 1904 [2] 751).
- 11) Anhydrid d. $\alpha\delta$ -Di[2-Furanyl]- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. *Sm.* 187° (*Soc.* 85, 188 *C.* 1904 [1] 644, 925).
- 12) 1,2-Carbonat-3-Benzoesäure d. 1,2,3-Trioxybenzol. *Sm.* 149° (*B.* 37, 108 *C.* 1904 [1] 584).
- $C_{14}H_3O_6$ *12) 1,4,5,8-Tetraoxy-9,10-Anthrachinon (*D.R.P.* 143804 *C.* 1903 [2] 476).
- 13) 1,2,7,8-Tetraoxy-9,10-Anthrachinon (*D.R.P.* 103988 *C.* 1899 [2] 922). — *III, 314.
- 14) 1,6,8,9-Tetraoxy-9,10-Anthrachinon. *Sm.* 217° (*B.* 36, 2937 *C.* 1903 [2] 885).
- 15) isom. 1,6,8,9-Tetraoxy-9,10-Anthrachinon. *Sm.* 292° (*B.* 36, 2941 *C.* 1903 [2] 886).
- $C_{14}H_4O_8$ *1) Ruffgallussäure (*C.* 1903 [1] 398).
- *5) isom. Hexaoxy-9,10-Anthrachinon (*D.R.P.* 66153, 103988). — *III, 315.
- $C_{14}H_3Br_2$ *3) α -Dibromphenanthren. *Sm.* 146° (*B.* 37, 3027 *C.* 1904 [2] 1225).
- *7) 4,9[oder 4,10]-Dibromphenanthren. *Sm.* 112—113° (*B.* 37, 3554 *C.* 1904 [2] 1399).
- 8) 3,9[oder 3,10]-Dibromphenanthren. *Sm.* 146° (*B.* 37, 3576 *C.* 1904 [2] 1404).
- $C_{14}H_9N$ 2) Nitril d. Fluoren-2-Carbonsäure. *Sm.* 88° (*M.* 25, 446 *C.* 1904 [2] 449).

- $C_{14}H_9N_3$ 4) Verbindung (aus 3-Amido-2-Phenylindol). Sm. 115° (*C.* 1904 [1] 1357).
- $C_{14}H_{10}O$ *2) 9-Oxyanthracen. Sm. 161° (*A.* 330, 182 *C.* 1904 [1] 892).
- *5) 9-Oxyphenanthren. Sm. 149° (*B.* 36, 2517 *C.* 1903 [2] 507).
- 10) 1-Oxyanthracen. Sm. 152° (*B.* 37, 70 *C.* 1904 [1] 666).
- 11) 1-Phenylbenzofuran. Sm. 120–121° (*B.* 36, 3981 *C.* 1904 [1] 171; *B.* 36, 4006 *C.* 1904 [1] 175).
- 12) 2-Phenylbenzofuran. Sm. 12–13° (und 42°); Sd. 316–317°₇₆₀ (*B.* 36, 4004 *C.* 1904 [1] 174).
- $C_{14}H_{10}O_2$ *9) 9,10-Dioxyphenanthren (D.R.P. 151981 *C.* 1904 [2] 167; *B.* 37, 3085 *C.* 1904 [2] 1056).
- *16) Benzil. + H_2SO_4 (*R.* 21, 355 *C.* 1903 [1] 151).
- 31) $\alpha\beta$ -Di[4-Oxyphenyl]äthin. Sm. 220–225° (*A.* 335, 184 *C.* 1904 [2] 1130).
- 32) 1,2-Dioxyanthracen. Sm. 131° u. Zers. (*B.* 36, 4020 *C.* 1904 [1] 168).
- 33) Methyläther d. 3-Oxy-9-Ketofluoren. Sm. 99° (*B.* 35, 4278 *C.* 1903 [1] 333).
- 34) Stilbenchinon (*A.* 335, 168 *C.* 1904 [2] 1128).
- 35) 2-Acetyl- β -Naphtofuran. Sm. 115–116° (*B.* 36, 2866 *C.* 1903 [2] 832).
- 36) 4-Methyl-1,2- α -Naphtopyron (β -Methyl- α -Naphtocumarin). Sm. 167° (*B.* 36, 1967 *C.* 1903 [2] 376).
- 37) 2-Methyl-3,4- β -Naphtopyron (α -Methyl- β -Naphtocumarin). Sm. 157 bis 158° (*B.* 36, 1969 *C.* 1903 [2] 377).
- 38) Fluoren-2-Carbonsäure. Zers. oberh. 260°. Ag (*M.* 25, 448 *C.* 1904 [2] 449).
- 39) Aldehyd d. Biphenyl-4,4'-Dicarbonsäure. Sm. 145° (*A.* 332, 76 *C.* 1904 [2] 43).
- $C_{14}H_{10}O_3$ *22) Anhydrid d. Benzolcarbonsäure (*Am.* 31, 261 *C.* 1904 [1] 1078).
- *33) 8-Oxy-7-Methylfluoron. HCl (*M.* 25, 313 *C.* 1904 [1] 1494).
- 27) 2,3,9-Trioxyanthracen. Sm. 282° (*B.* 36, 2938 *C.* 1903 [2] 886).
- 38) Säure (aus p-Kresol). Zers. bei 100° (*B.* 36, 2032 *C.* 1903 [2] 360).
- $C_{14}H_{10}O_4$ *2) 1,4,9,10-Tetraoxyanthracen (Leukochinizarin). Sm. 150° (153–154°) (*C.* 1904 [1] 101; D.R.P. 148792 *C.* 1904 [1] 557).
- *20) Biphenyl-3,3'-Dicarbonsäure. Sm. 356–357° (*A.* 332, 71 *C.* 1904 [2] 42).
- 31) 2-[3-Oxybenzoyl]benzol-1-Carbonsäure. Sm. 181–182° (D.R.P. 148110 *C.* 1904 [1] 329).
- 32) Monophenylester d. Benzol-1,2-Dicarbonsäure. Sm. 103° (*B.* 35, 4092 *C.* 1903 [1] 75).
- $C_{14}H_{10}O_5$ 14) 2,3,7-Trioxo-9-Methylfluoron (*B.* 37, 1177 *C.* 1904 [1] 1161; *B.* 37, 2731 *C.* 1904 [2] 541).
- $C_{14}H_{10}O_6$ *14) $\alpha\delta$ -Di[2-Furanyl]- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Sm. 185–187°. Na_2 (*Soc.* 85, 190 *C.* 1904 [1] 645, 925).
- 16) 1,4,5,8,9,10-Hexaoxyanthracen (D.R.P. 148792 *C.* 1904 [1] 557).
- $C_{14}H_{10}N_2$ 10) Bisanhydro-2-Amidobenzaldehyd. Sm. 81°; Sd. 212–216°₁₉. (2HCl, PtCl₄) (*C. r.* 136, 371 *C.* 1903 [1] 635).
- $C_{14}H_{10}Br_2$ 6) β -Brom- α -Phenyl- α -[4-Bromphenyl]äthen. Sm. 107° (*B.* 37, 4168 *C.* 1904 [2] 1643).
- 7) isom. β -Brom- α -Phenyl- α -[4-Bromphenyl]äthen. Sm. 35° (*B.* 37, 4168 *C.* 1904 [2] 1643).
- $C_{14}H_{11}N$ *3) 9-Amidophenanthren. Sm. 137–138° (145–150°). HNO_3 , H_2SO_4 , Oxalat (*B.* 36, 2515 *C.* 1903 [2] 506; *A.* 330, 165 *C.* 1904 [1] 891; *B.* 37, 3575 *C.* 1904 [2] 1404).
- *11) 3-Methylakridin. Sm. 132,5° (*A.* 332, 92 *C.* 1904 [1] 1570).
- 26) 1-[1-Naphtyl]pyrrol. Sm. 42°; Sd. oberh. 360° (*B.* 37, 2795 *C.* 1904 [2] 531).
- 27) 1-[2-Naphtyl]pyrrol. Sm. 107°; Sd. oberh. 360° (*B.* 37, 2795 *C.* 1904 [2] 531).
- 28) 2-[2-Naphtyl]pyrrol. Sm. 155° (*B.* 37, 2796 *C.* 1904 [2] 531).
- $C_{14}H_{11}N_3$ *5) 2,5-Diphenyl-1,3,4-Triazol. Sm. 190° (*J. pr.* [2] 69, 160 *C.* 1904 [1] 1274).
- 11) 1,5-Diphenyl-1,2,3-Triazol. Sm. 113–114°. HCl (*B.* 35, 4048 *C.* 1903 [1] 169).
- $C_{14}H_{11}N_5$ *1) Nitril d. Formazylcarbonsäure. Sm. 158° (*J. pr.* [2] 67, 400 *C.* 1903 [1] 1346).

- $C_{14}H_{11}Cl$ 5) α -Phenyl- β -[2-Chlorphenyl]äthen. Sm. 40°; Sd. 195°₂₂ (B. 35, 3970 C. 1903 [1] 31).
- $C_{14}H_{11}Br$ 4) 4-Brom- α -Diphenyläthen. Sd. 199—201°₁₉ (B. 37, 4168 C. 1904 [2] 1643).
- $C_{14}H_{12}O$ *6) 3-Methyldiphenylketon. Sd. 310—320° (B. 37, 3360 C. 1904 [2] 1127).
- *8) Desoxybenzoin. Sm. 55° (B. 36, 1497 C. 1903 [1] 1351; B. 36, 1580 C. 1903 [1] 1398).
- *10) Aldehyd d. Diphenylelessigsäure. Sd. 168—170°₁₀ (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 307 C. 1904 [1] 1133).
- 18) 2-Oxy- α -Diphenyläthen. Sd. 180°₂₂ (B. 36, 3999, 4003 C. 1904 [1] 174).
- 19) Phenyläther d. β -Oxy- α -Phenyläthen. Sd. 180°₁₈ (B. 36, 4010 Anm. C. 1904 [1] 176).
- 20) 3-Acetylacenaphten. Sm. 75°; Sd. 361°. Pikrat (A. 327, 91 C. 1903 [1] 1228).
- 21) 1-Phenyl-1,2-Dihydrobenzofuran. Sm. 32—33° (B. 36, 3982 C. 1904 [1] 171).
- 22) 2-Phenyl-1,2-Dihydrobenzofuran. Sm. 38,5°; Sd. 167°₁₄ (B. 36, 3984 C. 1904 [1] 171; B. 36, 4008 C. 1904 [1] 175).
- 23) Verbindung (aus Eberwurzelöl). Sd. 158—160°₁₆₋₁₇ (Ar. 241, 46 C. 1903 [1] 713).
- $C_{14}H_{12}O_2$ *4) $\alpha\beta$ -Di[4-Oxyphenyl]äthen. Sm. 250—251° u. Zers. (A. 325, 26 C. 1903 [1] 460; A. 335, 187 C. 1904 [2] 1131).
- *7) Benzoin. Sm. 212° (B. 36, 1580 C. 1903 [1] 1398; B. 36, 2829 C. 1903 [2] 1128).
- *13) Methyläther d. 4-Oxydiphenylketon. Sm. 61—62° (B. 37, 226 C. 1904 [1] 659).
- *32) 6-Oxy-3-Methyldiphenylketon. Sm. 84° (B. 36, 3892 C. 1904 [1] 93).
- 40) Verbindung (aus $\alpha\beta$ -Di[4-Oxyphenyl]äthen). Sm. 250° u. Zers. (A. 325, 28 C. 1903 [1] 460).
- $C_{14}H_{12}O_3$ *9) 2-Oxydiphenylelessigsäure (B. 36, 3999 C. 1904 [1] 174).
- *22) Methyl ester d. 2-Oxybenzolphenyläther-1-Carbonsäure. Sd. 312° (B. 37, 2368 C. 1904 [2] 344).
- *41) Phenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 92—93° (D.R.P. 46756). — *II, 920.
- *43) Benzylester d. 2-Oxybenzol-1-Carbonsäure (D.R.P. 144002 C. 1903 [2] 1040).
- 44) α -Keto- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 214—215° (A. 325, 75 C. 1903 [1] 463).
- 45) Monomethyläther d. 4,4'-Dioxydiphenylketon. Sm. 151—152° (B. 36, 3900 C. 1904 [1] 94).
- 46) Methyläther d. 2-[4-Oxybenzyl]-1,4-Benzochinon. Sm. 43° (B. 37, 3488 C. 1904 [2] 1301).
- 47) Aldehyd d. 3,4-Dioxybenzol-3-Benzyläther-1-Carbonsäure. Sm. 113—114° (D.R.P. 82816). — *III, 74.
- 48) Aldehyd d. 3,4-Dioxybenzol-4-Benzyläther-1-Carbonsäure. Sm. 122° (D.R.P. 82816). — *III, 74.
- 49) Phenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 48° (D.R.P. 46756). — *II, 919.
- 50) Acetat d. 2-Oxydiphenyläther. Sd. 358—360° (Am. 29, 127 C. 1903 [1] 705).
- $C_{14}H_{12}O_4$ 33) Benzyl-2,3,4-Trioxyphenylketon. Sm. 141—142° (D.R.P. 50450, 50451). — *III, 165.
- 34) Äthylester d. 6-Phenyl-1,2-Pyron-3-Carbonsäure. Sm. 107—108° (B. 36, 3670 C. 1903 [2] 1313).
- 35) Verbindung (aus d. 4,4'-Diamido-3,3'-Dioxybiphenyldimethyläther) (Soc. 83, 692 C. 1903 [2] 39).
- $C_{14}H_{12}O_6$ 14) Diacetat d. 5,7-Dioxy-2-Methyl-1,4-Benzpyron. Sm. 149° (B. 37, 2101 C. 1904 [2] 122).
- 15) Diacetat d. 7,8-Dioxy-2-Methyl-1,4-Benzpyron. Sm. 120° (B. 36, 2192 C. 1903 [2] 384).

- $C_{14}H_{12}O_{16}$ C 38,5 — H 2,7 — O 58,7 — M. G. 436.
 1) Hexahydrobenzol-1,1,2,2,4,4,5,5-Oktocarbonsäure. Sm. 218 bis 220° u. Zers. Ags (*See* 83, 783 C. 1903 [2] 201, 439).
- $C_{14}H_{12}N_2$ *6) 2-[4-Methylphenyl]indazol (C. r. 138, 1276 C. 1904 [2] 120).
 *19) 3,8-Dimethyldiphenazon. Sm. 188°. HNO_3 (B. 37, 26 C. 1904 [1] 523).
 *20) Nitril d. α -Phenylamido- α -Phenylelessigsäure. Sm. 84—85° (D.R.P. 142559 C. 1903 [2] 81; B. 37, 4079 C. 1904 [2] 1722; B. 37, 4084 C. 1904 [2] 1723).
 29) $\alpha\beta$ -Di[4-Amidophenyl]äthin. Sm. 235°. 2HCl, H_2SO_4 (A. 325, 72 C. 1903 [1] 463).
 30) 9-Hydrazidophenanthren. Sm. 220—221° u. Zers. (B. 36, 2515 C. 1903 [2] 506).
 31) 2-Methyl-5-Phenylbenzimidazol. Sm. 116° (B. 37, 882 C. 1904 [1] 1143).
- $C_{14}H_{12}N_4$ 12) 5-Amido-1,4-Diphenyl-1,2,3-Triazol. Sm. 169°. HCl (B. 35, 4058 C. 1903 [1] 171).
 13) 3-Amido-1,5-Diphenyl-1,2,4-Triazol. Sm. 154,5° (Am. 29, 76 C. 1903 [1] 523).
- $C_{14}H_{12}N_6$ C 63,6 — H 4,5 — N 31,8 — M. G. 264.
 1) 3,6-Di[3-Amidophenyl]-1,2,4,5-Tetrazin. Sm. 266—267°. 2HNO₃ + 3H₂O (B. 35, 3937 C. 1903 [1] 38).
- $C_{14}H_{13}N$ 26) 1,3-Dimethylcarbazol. Sm. 95°. Pikrat (A. 332, 91 C. 1904 [1] 1570).
- $C_{14}H_{13}N_3$ 19) 5-Amido-2-Methyl-1-Phenylbenzimidazol. Sm. 145—146° (J. pr. [2] 69, 42 C. 1904 [1] 521).
 20) 7-Amido-2-Methyl-5-Phenylbenzimidazol. Sm. 94° (B. 37, 883 C. 1904 [1] 1143).
 21) 4,6-Dimethyl-2-Phenyl-2,1,5-Benztriazol + H₂O. Sm. 150° (154° wasserfrei) (B. 36, 521 C. 1903 [1] 649).
- $C_{14}H_{13}J_3$ 3) β -Joddi[3-Methylphenyl]jodoniumjodid. Sm. 105° (A. 327, 283 C. 1903 [2] 351).
- $C_{14}H_{14}O$ *2) α -Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 66—67° (B. 37, 456 C. 1904 [1] 949).
 *3) 4-Oxy- $\alpha\alpha$ -Diphenyläthan. Sm. 57—58° (B. 36, 4012 C. 1904 [1] 176).
 27) 2-Oxy- $\alpha\alpha$ -Diphenyläthan. Sd. 177—178°₁₂ (B. 36, 4009 C. 1904 [1] 175).
 28) 2-Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 83,5° (B. 36, 3982 C. 1904 [1] 171).
 29) 4-Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 100—101° (B. 36, 4009 C. 1904 [1] 175).
 30) Phenol (aus 2-Phenyl-1,2-Dihydrobenzofuran). Sm. 63° (B. 36, 3985 C. 1904 [1] 171).
 31) Äthyläther d. 3-Oxybiphenyl. Sm. 34°; Sd. 305° (310°) (B. 36, 4075 C. 1904 [1] 267; B. 36, 4085 C. 1904 [1] 268).
 32) Phenyläther d. β -Oxyäthylbenzol. Sd. 166°₁₄ (C. r. 138, 1049 C. 1904 [1] 1493).
- $C_{14}H_{14}O_2$ *1) i-Hydrobenzoin. Sm. 136° (134°) (B. 36, 1576 C. 1903 [1] 1397; B. 37, 1677 C. 1904 [1] 1522).
 *4) $\alpha\alpha$ -Di-[4-Oxyphenyl]äthan. Sm. 122,9° (126°). + C₆H₆O (A. 325, 29 C. 1903 [1] 460; C. 1904 [1] 1650).
 *8) 4,4'-Dioxy-3,3'-Dimethylbiphenyl. Sm. 155° (Am. 31, 127 C. 1904 [1] 809).
 *11) Dimethyläther d. 2,2'-Dioxybiphenyl. Sm. 154° (A. 332, 62 C. 1904 [2] 41).
 *14) Dimethyläther d. 4,4'-Dioxybiphenyl. Sm. 172° (Am. 31, 127 C. 1904 [1] 809; A. 332, 67 C. 1904 [2] 42).
 *18) 6-Oxy-4-Keto-2-[β -Phenyläthenyl]-1,2,3,4-Tetrahydrobenzol (B. 36, 2339 C. 1903 [2] 438).
 31) Äthyläther d. Methyl-4-Oxy-1-Naphtylketon. Sm. 78—79°; Sd. 320° u. gr. Zers. (B. 23, 1209; 28, 1947). — III, 174; *III, 141.
 32) Äthylester d. Benznorcaradiäncarbonsäure. Sd. 163—164°₁₁ (B. 36, 3504 C. 1903 [2] 1273).
- $C_{14}H_{14}O_3$ 15) 4'-Methyläther d. 2,5,4'-Trioxydiphenylmethan. Sm. 126°; Sd. 271°₁₆ (B. 37, 3487 C. 1904 [2] 1301).
 16) 5-Acetyl-4,6-Diketo-2-Phenylhexahydrobenzol. Sm. 104°. Cu (B. 37, 3382 C. 1904 [2] 1219).

- $C_{14}H_{14}O_3$ 17) α -Oxyisopropyl-1-Oxy- β -Naphthylketon. Sm. 127—128° (D. R. P. 80986). — *III, 143.
18) α -Oxyisopropyl-2-Oxy- β -Naphthylketon. Sm. 122—123° (D. R. P. 80986). — *III, 143.
19) 2-Oxynaphthalinpropyläther-1-Carbonsäure. Sm. 79°; Zers. bei 145° (*C. r.* 136, 618 *C.* 1903 [1] 881; *B.* [3] 31, 33 *C.* 1904 [1] 519).
20) Acetat d. 6-Oxy-4-Keto-2-Phenyl-1,2,3,4-Tetrahydrobenzol. Sd. 200°₁₄ (*B.* 37, 3382 *C.* 1904 [2] 1219).
21) Acetat d. 7-Oxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran (*B.* 37, 1792 *C.* 1904 [1] 1612).
- $C_{14}H_{14}O_5$ 9) Trimethyläther d. Purpurogallin. Sm. 174—177° (*Soc.* 83, 196 *C.* 1903 [1] 401, 639).
10) Laktone d. α -Oxy- α -Phenylpropan- β -Ketocarbonsäure- β -Carbon-säureäthylester. Fl. (*B.* 31, 196). — *II, 1172.
11) Äthylester d. γ -Keto- α -[3,4-Dioxyphenyl]- α -Buten-3,4-Methylen-äther- β -Carbonsäure. Sm. 83° (*B.* 37, 1703 *C.* 1904 [1] 1497).
- $C_{14}H_{14}O_6$ 10) Tetraacetat d. 1,2,3,4-Tetraoxybenzol. Sm. 136° (*B.* 37, 120 *C.* 1904 [1] 586).
- $C_{14}H_{14}N_2$ *32) 2,2'-Dimethylazobenzol. Sm. 75° (*C.* 1904 [2] 1383).
*37) 4,4'-Dimethylazobenzol. Sm. 144° (*C.* 1904 [2] 1383).
49) 4-[4-Amidobenzyliden]amido-1-Methylbenzol (D. R. P. 106719). — *III, 23.
50) α -Benzyliden- β -[2-Methylphenyl]hydrazin. Sm. 100—102° (*C.* 1903 [2] 1432).
51) α -Benzyliden- β -[4-Methylphenyl]hydrazin. Sm. 114° (*C.* 1903 [2] 1432).
52) 2-Methyl-1-Äthyl- β -Naptimidazol. HCl, (2HCl, PtCl₄), (HCl, AuCl₃), Chromat, Pikrat (*Soc.* 83, 1197 *C.* 1903 [2] 1445).
53) 2-Methyl-N-Äthyl- α -oder- β -Naptimidazol. Sm. 84° (2HCl, HgCl₂), (2HCl, PtCl₄ + 4H₂O) (*Soc.* 83, 1193 *C.* 1903 [2] 1444).
- $C_{14}H_{14}N_4$ *6) Di[2-Amidobenzyliden]hydrazin. Sm. 248° (*M.* 25, 374 *C.* 1904 [2] 322).
*9) α -Phenylazo- α -Phenylhydrazonäthan (Methylformazyl). Sm. 123 bis 123,5° (*B.* 36, 87 *C.* 1903 [1] 452).
- $C_{14}H_{14}N_5$ 3) 3,6-Di[3-Amidophenyl]-1,2-Dihydro-1,2,4,5-Tetrazin. Sm. 179 bis 190° (*B.* 35, 3936 *C.* 1903 [1] 38).
- $C_{14}H_{14}Cl_2$ 1) Dichlorhexahydroanthracen. Sm. 159° (*C. r.* 139, 606 *C.* 1904 [2] 1574).
- $C_{14}H_{14}Br_2$ 2) Dibromhexahydroanthracen. Sm. 162° (*C. r.* 139, 606 *C.* 1904 [2] 1574).
- $C_{14}H_{14}J_2$ 3) 4-Äthyldiphenyljodoniumjodid. Sm. 160° (*A.* 327, 292 *C.* 1903 [2] 352).
4) Di[3-Methylphenyl]jodoniumjodid. Sm. 155° (*A.* 327, 274 *C.* 1903 [2] 350).
5) 2,3'-Dimethyldiphenyljodoniumjodid. Sm. 150° (*A.* 327, 279 *C.* 1903 [2] 351).
6) 3,4'-Dimethyldiphenyljodoniumjodid. Sm. 143° (*A.* 327, 281 *C.* 1903 [2] 351).
- $C_{14}H_{14}S$ *1) Dibenzylsulfid (*B.* 36, 538 *C.* 1903 [1] 706).
 $C_{14}H_{14}S_2$ *5) Dibenzyldisulfid (*B.* 36, 539 *C.* 1903 [1] 707).
 $C_{14}H_{14}S_3$ 4) Dimethyläther d. Di[4-Merkaptophenyl]sulfid. Sm. 89° (*R.* 22, 362 *C.* 1904 [1] 23).
- $C_{14}H_{15}N$ 21) α -Phenylamidoäthylbenzol. Sd. 183°₂₀. HCl, H₂SO₄ (*B.* 37, 2691 *C.* 1904 [2] 519).
- $C_{14}H_{15}N_3$ *17) 4'-Amido-2,3'-Dimethylazobenzol (*J. pr.* [2] 69, 321 *C.* 1904 [2] 34).
38) α -Phenyl- β -[2-Methylamidobenzyliden]hydrazin. Sm. 123—124° (*B.* 36, 4187 *C.* 1904 [1] 279).
39) β -Phenylhydrazon- β -Amido- α -Phenyläthan. Sm. 70°. HCl (*B.* 36, 2485 *C.* 1903 [2] 490).
40) 2-Methylamido-1-Phenylhydrazonmethylbenzol. Sm. 124,5—125,5° (*B.* 37, 984 *C.* 1904 [1] 1079).
41) 4-Benzylidenhydrazido-2,6-Dimethylpyridin. Sm. 220—224° u. zers. HCl, HNO₃ (*B.* 36, 1117 *C.* 1903 [1] 1185).

- $C_{14}H_{10}O$ *3) 3-Keto-4-Benzyliden-1-Methylhexahydrobenzol. Sm. 59°; Sd. 190 bis 200°₁₃ (C. r. 136, 1225 C. 1903 [2] 116).
- $C_{14}H_{16}O_2$ 12) Aethylester d. 1-[β -Phenyläthenyl]-R-Trimethylen-2-Carbonsäure. Sm. 42—43° (B. 37, 2104 C. 1904 [2] 104).
- $C_{14}H_{16}O_4$ 15) Diäthyläther d. 5,7-Dioxy-4-Methyl-2,1-Benzpyron. Sm. 131° (D. R. P. 73 700). — *II, 1126.
- 16) α -Acetoxy- α -Phenyl- α -Buten- β -Methylcarbonsäure (C. 1904 [1] 1258).
- 17) Dimethylester d. α -Phenyl- β -Buten- δ -Dicarbonsäure. Sd. 187°₁₂ (B. 37, 3122 C. 1904 [2] 1217).
- $C_{14}H_{18}O_5$ 21) Mekoninmethyläthylketon. Sm. 128—132° (M. 25, 1052 C. 1904 [2] 1644).
- $C_{14}H_{18}O_6$ 19) Diacetat d. 3,6-Dioxy-2,5-Diäthyl-1,4-Benzochinon. Sm. 130° (B. 37, 2386 C. 1904 [2] 307).
- $C_{14}H_{18}N_2$ *16) 4-Amido-3-[4-Methylphenyl]amido-1-Methylbenzol. Sm. 107° (B. 36, 341 C. 1903 [1] 633).
- *24) 4,4'-Diamido-3,3'-Dimethylbiphenyl. Oxalat (B. 37, 1401 C. 1904 [1] 1443; M. 25, 383 C. 1904 [2] 320).
- *27) s-Di[2-Methylphenyl]hydrazin (B. 36, 340 C. 1903 [1] 633).
- *29) s-Di[4-Methylphenyl]hydrazin (B. 36, 340 C. 1903 [1] 633).
- *40) 4-Amido-2-Benzylamido-1-Methylbenzol (Benzyl-5-Amido-2-Methylphenylamin). Sm. 80° (D. R. P. 141 297 C. 1903 [1] 1163).
- 41) 4,4'-Di[Methylamido]biphenyl. Sm. 74—76°. 2HCl (B. 37, 3773 C. 1904 [2] 1548).
- $C_{14}H_{18}N_4$ 20) $\alpha\beta$ -Di[2,4-Diamidophenyl]äthen. Sm. 191° (B. 37, 3600 C. 1904 [2] 1500).
- 21) α -Phenylhydrazon- α -Phenylhydrazidoäthan. HCl (B. 36, 2483 C. 1903 [2] 490).
- 22) p-Diamido-3,p-Dimethylazobenzol (J. pr. [2] 68, 307 C. 1903 [2] 1143).
- $C_{14}H_{16}Cl_2$ 1) Dichloroktohydroanthracen. Sm. 192° (C. r. 139, 606 C. 1904 [2] 1574).
- $C_{14}H_{16}Br_2$ 1) Dibromoktohydroanthracen. Sm. 194° (C. r. 139, 605 C. 1904 [2] 1574).
- $C_{14}H_{17}N_3$ *9) 4-Amido-4'-Dimethylamidodiphenylamin. Sm. 116°. 2HCl, H₂SO₄ (J. pr. [2] 69, 223 C. 1904 [1] 1268).
- 10) Di[β -2-Pyridyläthyl]amin. Fl. 3 [2 HCl, PtCl₄] + 2H₂O, 3 Pikrat (B. 37, 173 C. 1904 [1] 673).
- $C_{14}H_{17}Cl$ 1) Chloroktohydroanthracen (C. r. 139, 606 C. 1904 [2] 1574).
- $C_{14}H_{17}Br$ 1) Bromoktohydroanthracen. Fl. (C. r. 139, 606 C. 1904 [2] 1574).
- $C_{14}H_{18}O$ 6) γ -Keto- α -[4-Isopropylphenyl]- α -Penten. Sm. 32—33°; Sd. 170°₁₇ (A. 330, 257 C. 1904 [1] 946).
- 7) γ -Keto- α -[4-Isopropylphenyl]- β -Methyl- α -Buten. Sd. 171,5°₁₇ (A. 330, 261 C. 1904 [1] 947).
- $C_{14}H_{18}O_2$ 13) Aethyläther d. α -Oxy- γ -Keto- α -Phenyl- α -Hexen. Sd. 155—158°₁₀ (C. r. 139, 206 C. 1904 [2] 649).
- 14) Benzoat d. α -Oxy- α -Hepten. Sd. 195°₅₀ (Soc. 83, 153 C. 1903 [1] 72, 436).
- 15) Benzoat d. 2-Oxy-1-Methylhexahydrobenzol. Fl. (C. 1904 [1] 1346).
- $C_{14}H_{18}O_3$ 19) Aethylester d. β -Benzoylbutan- α -Carbonsäure. Sd. 175°₂₀ (C. 1904 [1] 1258).
- $C_{14}H_{18}O_4$ *18) Diäthyläther d. $\alpha\gamma$ -Diketo- α -[2,4-Dioxyphenyl]butan. Cu (B. 37, 355 C. 1904 [1] 670).
- 28) Diisopropylester d. Benzol-1,2-Dicarbonsäure (G. 28 [2] 503). — *II, 1047.
- 29) Isobutylester d. 1- α -Benzoxylpropionsäure. Sd. 163—164°₁₁ (C. 1903 [2] 1419).
- $C_{14}H_{16}O_5$ 13) 6-Ketododekahydrobiphenylen-3,4'-Dicarbonsäure. Sm. 170° (Soc. 85, 429 C. 1904 [1] 1082, 1439).
- 14) β -Ketopropylester d. 3,5-Dioxybenzoldiäthyläther-1-Carbonsäure. Sm. 65° (D. R. P. 73 700). — *II, 1030.
- $C_{14}H_{16}O_6$ 18) 2,5-Diacetat d. 2,3,5,6-Tetraoxy-1,4-Diäthylbenzol. Sm. 205° (B. 37, 2387 C. 1904 [2] 307).
- $C_{14}H_{18}O_7$ 5) Diäthylester d. 6-Oxy-1,4-Dihydrobenzol-1,3-Dicarbonsäure-4-Methylcarbonsäure. Sm. 112—113° (B. 37, 2118 C. 1904 [2] 438).

- $C_{14}H_{18}O_7$ 6) Diäthylester d. Glutakonylglutakonsäure. Sm. 98—99° (*C. r.* 136, 693 *C.* 1903 [1] 960).
 $C_{14}H_{18}N_2$ *7) 5-Amyl-3-Phenylpyrazol. Sm. 76° (*C. r.* 136, 1264 *C.* 1903 [2] 122).
 $C_{14}H_{18}N_4$ 9) 2,4-Diamido-4'-DimethylamidodiphenylaminP Sm. 70—75° (*J. pr.* [2] 69, 230 *C.* 1904 [1] 1269).
 $C_{14}H_{20}O$ 10) α -Oxy- α -Phenyl- α -Hexahydrophenyläthan. Sd. 168°₂₀ (*C. r.* 139, 345 *C.* 1904 [2] 705).
 11) Methyläther d. α -[2-Oxyphenyl]- α -Hepten. Sd. 179°₁₅ (*B.* 37, 4002 *C.* 1904 [2] 1641).
 12) γ -Keto- α -[4-Isopropylphenyl]pentan. Sd. 160—164°₁₇ (*A.* 330, 259 *C.* 1904 [1] 947).
 13) γ -Keto- α -[4-Isopropylphenyl]- β -Methylbutan. Sd. 155,5°₁₈ (*A.* 330, 263 *C.* 1904 [1] 947).
 14) Isobutyl-2,4,6-Trimethylphenylketon. Sd. 151°₂₀ (*B.* 37, 929 *C.* 1904 [1] 1209).
 15) Methyl-2,4,5-Triäthylphenylketon. Sd. 146°₁₃ (*B.* 36, 1635 *C.* 1903 [2] 26).
 $C_{14}H_{20}O_2$ 16) α -Oxyisopropyl-2-Methyl-5-Isopropylphenylketon. Sd. 157°₁₅ (*C.* 1899 [1] 959) — *III, 126.
 17) 2,5-Dipseudobutyl-1,4-Benzochinon. Sm. 152,5° (*Bl.* [3] 31, 970 *C.* 1904 [2] 1113).
 18) Aethylester d. 3-tert. Butyl-1-Methylbenzol-5-Carbonsäure. Sd. 268—270°₇₄₃ (*C.* 1904 [1] 1498).
 $C_{14}H_{20}O_3$ 32) Lakton d. β -Oxypropylcamphocarbonsäure. Sm. 141° (*C. r.* 136, 792 *C.* 1903 [1] 1086).
 33) Allylester d. Camphocarbonsäure. Sd. 160—170°₂₀ (*C. r.* 136, 240 *C.* 1903 [1] 584).
 $C_{14}H_{20}O_4$ 7) Methylester d. Acetylcamphocarbonsäure. Sd. 142°₁₂ (*B.* 35, 4032 *C.* 1903 [1] 81).
 8) Aethylester d. α -Oxy- α -[4-Methoxyphenyl]- β -Methylpropan- β -Carbonsäure. Sm. 71° (*C.* 1903 [2] 566).
 $C_{14}H_{20}O_5$ 3) 4-Keto-1,3-Diacetyl-1,3,5-Tri[Oxymethyl]-6-Methyl-1,2,3,4-Tetrahydrobenzol + xH₂O. Sm. 110° (122° wasserfrei) (*B.* 36, 2176 *C.* 1903 [2] 371).
 $C_{14}H_{20}O_5$ *2) Tetraäthylester d. Aethentetracarbonsäure.. Sm. 56—58°; Sd. 227 bis 233°₁₅ (*J. pr.* [2] 68, 159 *C.* 1903 [2] 759; *Soc.* 85, 613 *C.* 1904 [1] 1553).
 $C_{14}H_{20}O_9$ 6) Säure (aus Cholesterin). $Ca_2 + 2H_2O$ (*M.* 24, 190 *C.* 1903 [2] 21).
 $C_{14}H_{20}O_{10}$ 2) Pentamethylester d. Butan- $\alpha\alpha\beta\gamma\delta$ -Pentacarbonsäure. Sm. 95—96° (*B.* 36, 3293 *C.* 1903 [2] 1167).
 $C_{14}H_{20}Br_2$ *2) 3,6-Dibrom-1,2,4,5-Tetraäthylbenzol. Sm. 113° (*B.* 36, 1635 *C.* 1903 [2] 26).
 3) $\gamma\delta$ -Dibrom- δ -[2,4,6-Trimethylphenyl]- β -Methylbutan. Fl. (*B.* 37, 930 *C.* 1904 [1] 1209).
 4) 4,6-Dibrom-2-Isomyl-1,3,5-Trimethylbenzol. Sm. 44° (*B.* 37, 1720 *C.* 1904 [1] 1489).
 $C_{14}H_{21}Cl$ 3) δ -Chlor- δ -[2,4,6-Trimethylphenyl]- β -Methylbutan. Fl. (*B.* 37, 930 *C.* 1904 [1] 1209).
 $C_{14}H_{22}O$ *17) α -Methyljonon. Sd. 137—142°₁₅ (D.R.P. 150827 *C.* 1904 [1] 1379).
 *18) β -Methyljonon. Sd. 145—151°₁₅ (D.R.P. 150827 *C.* 1904 [1] 1379).
 *19) Methylpseudojonon (D.R.P. 150771 *C.* 1904 [1] 1307).
 20) isom. α -Methyljonon. Sd. 135—140°₁₅ (D.R.P. 150827 *C.* 1904 [1] 1379).
 21) isom. β -Methyljonon. Sd. 135—140°₁₅ (D.R.P. 150827 *C.* 1904 [1] 1379).
 22) δ -Oxy- δ -[2,4,6-Trimethylphenyl]- β -Methylbutan. Sd. 164°₂₁ (*B.* 37, 930 *C.* 1904 [1] 1209).
 23) 5-[α -Oxyäthyl]-1,2,4-Triäthylbenzol. Sm. 45°; Sd. 149°₁₃ (*B.* 36, 1635 *C.* 1903 [2] 26).
 24) Methyläther d. α -[2-Oxyphenyl]heptan. Sd. 153—155°₂₀ (*B.* 37, 4002 *C.* 1904 [2] 1642).
 25) Alstonin. Sm. 191—192° (*B.* 37, 4113 *C.* 1904 [2] 1656).
 26) Isoalstonin. Sm. 163° (*B.* 37, 4113 *C.* 1904 [2] 1656).

- C₁₄H₂₂O₂** 16) $\alpha\gamma$ -Dioxy- α -[4-Isopropylphenyl]- β -Methylpropan. Sm. 58°; Sd. 210°₂₂ (M. 24, 252 C. 1903 [2] 242).
 16) Dipropyläther d. $\alpha\alpha$ -Dioxy- α -Phenyläthan (B. 31, 1012). — *III, 91.
 17) Butyrylcampher. Sd. 146°₁₂ (B. 36, 2639 C. 1903 [2] 627; B. 37, 762 C. 1904 [1] 1085).
 18) Cyklamiretin. Sm. 215° (B. 36, 1765 C. 1903 [2] 119).
 19) Äthylester d. Cyclocitrylidenessigsäure. Sd. 141°₁₇ (D.R.P. 153575 C. 1904 [2] 678).
 20) Bornylester d. Crotonsäure. Sd. 173°₁₉ (C. r. 136, 238 C. 1903 [1] 584).
- C₁₄H₂₂O₃** 22) 2,5-Dimethyläther-3-Propyläther d. 2,3,5-Trioxyl-Propylbenzol. Sd. 156—157°₁₂ (B. 36, 1720 C. 1903 [2] 114).
 23) Methylester d. α -Äthylcamphocarbonsäure. Sm. 60° (C. r. 137, 1067 C. 1904 [1] 283).
 24) Methylester d. β -Äthylcamphocarbonsäure. Sd. 162°₁₀ (C. r. 137, 1068 C. 1904 [1] 283).
 25) Propylester d. Camphocarbonsäure. Sd. 170°₁₉ (C. r. 136, 240 C. 1903 [1] 584).
 26) Verbindung (aus Guttapercha). Sm. 120—130° (C. 1903 [1] 84).
- C₁₄H₂₂O₄** *3) Digitogensäure (B. 37, 1216 C. 1904 [1] 1363).
 11) β -Oxypropylcamphocarbonsäure (C. r. 136, 792 C. 1903 [1] 1086).
 12) Diacetat d. 5,7-Dioxy-1-Methylbicyclo-[1,3,3]-Nonan. Fl. (B. 37, 1674 C. 1904 [1] 1607).
- C₁₄H₂₂O₅** 5) 2,4,5-Trimethyläther-1,1-Diäthyläther d. 2,4,5-Trioxyl-1-Dioxy-methylbenzol. Sm. 101,5° (Ar. 242, 103 C. 1904 [1] 1008).
- C₁₄H₂₂O₆** *1) Diäthylester d. 3,5-Dioxy-1,3-Dimethyl-1,2,3,4-Tetrahydrobenzol-2,6-Dicarbonsäure. Sm. 60—63°. Na + C₂H₅O (B. 32, 89; A. 332, 26 C. 1904 [1] 1566).
 *4) Diäthylester d. 5-Keto-1-Oxy-1,3-Dimethylhexahydrobenzol-2,4-Dicarbonsäure. Sm. 80° (A. 332, 25 C. 1904 [1] 1566).
- C₁₄H₂₃Br₃** 1) 1,6,9-Tribrom-3,3'-Dimethyldodekahydrobiphenyl (C. 1904 [1] 1346).
- C₁₄H₂₄O₂** *11) 1-Menthylester d. Crotonsäure. Sd. 140—140,5°₁₄ (A. 327, 172 C. 1903 [1] 1396).
 *13) Isobutyryl d. Isoborneol. Sd. 120°₄ (C. r. 136, 239 C. 1903 [1] 584).
 14) Methylpseudojononhydrat. Sd. 186—192°_{12,5} (D.R.P. 150771 C. 1904 [1] 1307).
 15) isom. Methylpseudojononhydrat. Sd. 185—195°_{13,5} (D.R.P. 150771 C. 1904 [1] 1307).
 16) Äthylester d. α -Undekin- α -Carbonsäure. Sd. 170—174°₂₅ (C. r. 136, 554 C. 1903 [1] 825).
 17) Isoamylester d. α -Oktin- α -Carbonsäure. Sd. 168—172°₂₇ (C. r. 136, 554 C. 1903 [1] 825).
 18) 1-Menthylester d. R-Trimethylen-carbonsäure. Sd. 135—135,5°₁₄ (A. 327, 182 C. 1903 [1] 1396).
 19) Acetat d. 4-[β -Oxyisobutyl]-1,1,5-Trimethyl-2,3-Dihydro-R-Penten. Sd. 118—122°₁₉ (Bl. [3] 31, 462 C. 1904 [1] 1516).
 20) Butyrat d. d-Borneol. Sd. 120—121°₁₀₋₁₁ (D.R.P. 80711). — *III, 337.
 21) Butyrat d. Campholenalkohol. Sd. 252—254° (C. r. 138, 280 C. 1904 [1] 725).
 22) Butyrat d. Isoborneol. Sd. 123°₁₁ (C. r. 136, 239 C. 1903 [1] 584).
 23) Crotonat d. d-Citronellol. Sd. 138—140°₃₅ (C. r. 126, 1727). — *III, 332.
- C₁₄H₂₄O₃** *4) Menthylester d. Acetessigsäure (Soc. 81, 1501 C. 1903 [1] 138).
 *6) Menthylester d. β -Oxycrotonsäure. Cu (Soc. 81, 1503 C. 1903 [1] 138).
- C₁₄H₂₄O₄** *6) Monomenthylester d. Bernsteinsäure. Sm. 59° (B. 37, 1379 C. 1904 [1] 1441).
 12) Diäthylester d. ζ -Methyl- α -Hepten- $\delta\eta$ -Dicarbonsäure. Sd. 155°₁₇ (C. r. 136, 1614 C. 1903 [2] 440).
- C₁₄H₂₄O₅** 7) Diäthylester d. Oxycamphersäure. Fl. (Am. 28, 481 C. 1903 [1] 329).

- $C_{14}H_{24}O_6$ 22) Diäthylester d. Dimethylmalonyloxypivalinsäure. *Sd.* 156—157°₁₀ (*Bl.* [3] 31, 163 *C.* 1904 [1] 869).
- $C_{14}H_{26}O$ 3) 4- $[\beta$ -Oxy- β -Aethylbutyl]-1,1,5-Trimethyl-2,3-Dihydro-R-Penten (Diäthylcamphenol). *Sd.* 144—148°₂₆ (*Bl.* [3] 31, 463 *C.* 1904 [1] 1516).
- $C_{14}H_{26}O_2$ 4) Isobutylmenthon. *Sd.* 124—128°₁₀ (*C. r.* 138, 1140 *C.* 1904 [2] 106).
- *2) Suberonpinakon. *Sm.* 75—76° (*C.* 1903 [1] 568; *A.* 327, 66 *C.* 1903 [1] 1124).
- $C_{14}H_{26}O_3$ 7) Aethylester d. β -Ketoundekan- α -Carbonsäure. *Sd.* 164—165°₁₃. *Cu* (*C. r.* 136, 755 *C.* 1903 [1] 1019).
- 8) Aethylester d. β -Keto- δ -Methyldekan- γ -Carbonsäure. *Sd.* 147°₁₂ (*Bl.* [3] 31, 597 *C.* 1904 [2] 26; *Bl.* [3] 31, 759 *C.* 1904 [2] 309).
- 9) Propylester d. β -Oxy- α -Heptenpropyläther- α -Carbonsäure. *Sd.* 279 bis 280° (*C. r.* 138, 208 *C.* 1904 [1] 659; *Bl.* [3] 31, 513 *C.* 1904 [1] 1602).
- $C_{14}H_{26}O_4$ *4) Diäthylester d. Oktan- $\alpha\beta$ -Dicarbonsäure (*M.* 24, 621 *C.* 1903 [2] 1236).
- 26) α -Acetoxylundekan- α -Carbonsäure. *Sm.* 47° (*Bl.* [3] 29, 1126 *C.* 1904 [1] 261).
- 27) Diäthylester d. β -Methylheptan- $\gamma\zeta$ -Dicarbonsäure. *Sd.* 158°₁₀ (*C. r.* 136, 458 *C.* 1903 [1] 696; *C.* 1904 [2] 1045).
- 28) Diacetat d. $\alpha\alpha$ -Dioxydekan. *Sm.* 25,5°; *Sd.* 170,5°₁₀ (*M.* 24, 630 *C.* 1903 [2] 1237).
- $C_{14}H_{26}Br_2$ 1) Dibromid d. Kohlenwasserstoff $C_{14}H_{26}$. *Sm.* 83° (*M.* 25, 126 *C.* 1904 [1] 716).
- $C_{14}H_{27}N$ *1) Di[3-Methylhexahydrophenyl]amin. *Sd.* 145°₁₀ (*C. r.* 138, 1258 *C.* 1904 [2] 105).
- $C_{14}H_{28}O$ 9) γ -Ketotetradekan. *Sm.* 34°; *Sd.* 152°₁₆ (*Bl.* [3] 29, 1209 *C.* 1904 [1] 355).
- 10) Oxyd (aus Butyronpinakon). *Sd.* 243—244° (*M.* 25, 128 *C.* 1904 [1] 716).
- $C_{14}H_{28}O_2$ *4) Aethylester d. Laurinsäure. *Sd.* 79°₀ (*B.* 36, 4340 *C.* 1904 [1] 433).
- $C_{14}H_{28}O_3$ 4) Aethylester d. α -Oxyundekan- α -Carbonsäure. *Sm.* 43° (*Bl.* [3] 29, 1126 *C.* 1904 [1] 261).
- $C_{14}H_{30}O$ *1) α -Oxytetradekan. *Sm.* 38°; *Sd.* 160°₁₀ (*C. r.* 137, 61 *C.* 1903 [2] 551).
- $C_{14}H_{30}O_2$ 4) ζ -Aethyläther d. $\epsilon\zeta$ -Dioxy- β -Methyl- ϵ -Isoamylhexan. *Sd.* 143—144°₂₅ (*C. r.* 138, 91 *C.* 1904 [1] 505; *Bl.* [3] 31, 304 *C.* 1904 [1] 1133).
- $C_{14}H_{31}N$ *1) α -Amidotetradekan. *Sm.* 37° (*C.* 1903 [1] 826; *J. pr.* [2] 67, 419 *C.* 1903 [1] 1405).

— 14 III —

- $C_{14}H_4O_2Cl_6$ *1) 3, 5, 3', 5'-Tetrachlortolanchloridchinon. *Sm.* 249° (*A.* 325, 85 *C.* 1903 [1] 464).
- $C_{14}H_4O_2Cl_5$ *1) $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,3,5-Trichlor-4-Keto-3,4-Dihydrophenyl]äthan. *Sm.* 185° (*A.* 325, 91 *C.* 1903 [1] 465).
- $C_{14}H_4O_2Cl_{12}$ 1) Ketochlorid (aus $\alpha\beta$ -Di[4-Amidophenyl]äthin). *Sm.* 191° (*A.* 325, 80 *Ann.* *C.* 1903 [1] 464).
- $C_{14}H_4O_2Cl_{14}$ 1) Ketochlorid (aus pp-Diamidostilben). *Sm.* 150° u. Zers. (*A.* 325, 47 *Ann.* *C.* 1903 [1] 462).
- $C_{14}H_4O_4Br_4$ 4) p-Tetrabrom-1,6-Dioxy-9,10-Anthrachinon. *Sm.* 295° (*B.* 36, 2937, 2942 *C.* 1903 [2] 885).
- $C_{14}H_4O_6Br_4$ 1) 2,4,6,8-Tetrabrom-1,3,5,7-Tetraoxy-9,10-Anthrachinon (D.R.P. 155633 *C.* 1904 [2] 1487).
- $C_{14}H_4O_6Br_8$ 1) Verbindung (aus 3,4,5,6-Tetrabrom-1,2-Benzochinon u. Essigsäure). Zers. bei 220—230° (*Ann.* 31, 111 *C.* 1904 [1] 803).
- $C_{14}H_4O_{14}N_4$ *C.* 37,2 — H 0,9 — O 49,5 — N 12,4 — M.G. 452.
- 1) 2,4,6,8-Tetranitro-1,3,5,7-Tetraoxy-9,10-Anthrachinon. Zers. bei 280—300° (D.R.P. 73605, 72552, 101486, 108420). — III, *313.
- $C_{14}H_5O_2Cl_{11}$ 1) Ketochlorid (aus pp-Diamidostilben). *Sm.* 217° u. Zers. (*A.* 325, 47 *Ann.* *C.* 1903 [1] 462).
- $C_{14}H_5O_2Cl_{13}$ 1) Ketochlorid (aus $\alpha\beta$ -Di[4-Amidophenyl]äthin). *Sm.* 258° (*A.* 325, 79 *Ann.*, 85 *C.* 1903 [1] 464).
- 2) isom. Ketochlorid (aus $\alpha\beta$ -Di[4-Amidophenyl]äthin). *Sm.* 212° (*A.* 325, 79 *Ann.*, 85 *C.* 1903 [1] 464).
- $C_{14}H_5O_4Cl_3$ 1) p-Trichlor-2,6-Dioxy-9,10-Anthrachinon (D.R.P. 152175 *C.* 1904 [2] 168).

- $C_{14}H_6O_2Cl_4$ *1) 3,5,3',5'-Tetrachlorstilbenchinon (A. 325, 54 C. 1903 [1] 462).
 2) $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthin. Sm. 226° (A. 325, 77 C. 1903 [1] 463).
- $C_{14}H_6O_2Cl_3$ *1) $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen. Sm. 248° (A. 325, 78 C. 1903 [1] 464).
- $C_{14}H_6O_2Cl_3$ *2) $\alpha\alpha\beta\beta$ -Tetrachlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 222° u. Zers. + 2 Molec. Essigsäure (A. 325, 82 C. 1903 [1] 464).
- $C_{14}H_6O_2Cl_{12}$ 1) Ketchlorid (aus 4,4'-Dioxystilben). Sm. 223—224° (A. 325, 51 Anm. C. 1903 [1] 462).
- $C_{14}H_6O_2Br_2$ 6) 2,7-Dibrom-9,10-Phenanthrenchinon. Sm. 323° (B. 37, 3559 C. 1904 [2] 1400; B. 37, 3567 C. 1904 [2] 1402).
- $C_{14}H_6O_2Br_4$ 2) 3,5,3',5'-Tetrabromstilbenchinon (Tetrabromdibenzylidenchinon). Zers. oberh. 300°. NaOH, KOH (A. 325, 34 C. 1903 [1] 460).
- $C_{14}H_6O_4Cl_2$ 4) β -Dichlor-2,6-Dioxy-9,10-Anthrachinon (D.R.P. 152175 C. 1904 [2] 168).
 5) β -Dichlor-2,7-Dioxy-9,10-Anthrachinon (D.R.P. 152175 C. 1904 [2] 168).
- $C_{14}H_6O_4Cl_4$ 1) $\alpha\beta$ -Diketo- $\alpha\beta$ -Di[2,5-Dichlor-4-Oxyphenyl]äthan. Sm. 275° (J. pr. [2] 59, 233). — *III, 224.
 2) $\alpha\beta$ -Diketo- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. noch nicht bei 300° (A. 325, 88 C. 1903 [1] 464).
- $C_{14}H_6O_4Br_2$ 7) isom. β -Dibrom-1,6-Dioxy-9,10-Anthrachinon. Sm. 210—213° (B. 36, 2937 C. 1903 [2] 885).
 8) β -Dibrom-2,3-Dioxy-9,10-Anthrachinon. Sm. 127—129° (B. 36, 2939 C. 1903 [2] 886).
- $C_{14}H_6O_4Br_4$ 1) $\alpha\beta$ -Diketo- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. noch nicht bei 270° (A. 325, 90 C. 1903 [1] 465).
- $C_{14}H_6O_6N_2$ *4) 2,7-Dinitro-9,10-Phenanthrenchinon. Sm. 301—303° (B. 36, 3739 C. 1904 [1] 36; B. 37, 3085 C. 1904 [2] 1056).
 *7) 4,5-Dinitro-9,10-Phenanthrenchinon. Sm. 228° (B. 36, 3745 C. 1904 [1] 37).
 8) isom. Dinitro-9,10-Anthrachinon. Sm. bei 300° (D.R.P. 72685). — *III, 296.
- $C_{14}H_6O_6Br_2$ 1) β -Dibrom-1,3,5,7-Tetraoxy-9,10-Anthrachinon (D.R.P. 78642, 81962). — *III, 312.
- $C_{14}H_6O_6N_2$ 6) 1,4-Dinitro-2,3-Dioxy-9,10-Anthrachinon. Ca, Ba (B. 36, 2940 C. 1903 [2] 886).
 C 40,2 — H 1,4 — O 38,3 — N 20,1 — M. G. 418.
- $C_{14}H_6O_{10}N_6$ 1) 2,4,6,8-Tetranitro-1,5-Diamido-9,10-Anthrachinon (D.R.P. 148109 C. 1904 [1] 320).
- $C_{14}H_6N_2Cl_2$ 1) Nitril d. 3,3'-Dichlorbiphenyl-4,4'-Dicarbonsäure. Sm. 152—153° (Soc. 85, 9 C. 1904 [1] 376, 729).
- $C_{14}H_7O_2Cl$ *1) 2-Chlor-9,10-Anthrachinon. Sm. 208—209° (B. 37, 62 C. 1904 [1] 520).
- $C_{14}H_7O_2Br$ *2) 2-Brom-9,10-Anthrachinon. Sm. 204—205° (B. 37, 61 C. 1904 [1] 520).
 *3) 4-Brom-9,10-Phenanthrenchinon. Sm. 126° (B. 37, 3554 C. 1904 [2] 1399).
 4) 2-Brom-9,10-Phenanthrenchinon. Sm. 233—234° (B. 37, 3558 C. 1904 [2] 1400).
 5) 3-Brom-9,10-Phenanthrenchinon. Sm. 268° (B. 37, 3571 C. 1904 [2] 1403).
- $C_{14}H_7O_2J$ 1) 2-Jod-9,10-Anthrachinon. Sm. 175—176° (B. 36, 60 C. 1904 [1] 520).
- $C_{14}H_7O_8Cl$ 1) 3-Chlor-2-Oxy-9,10-Anthrachinon. Sm. 258—260° (D.R.P. 148110 C. 1904 [1] 329).
 2) β -Chlor-2-Oxy-9,10-Anthrachinon (D.R.P. 152175 C. 1904 [2] 168).
- $C_{14}H_7O_3Br$ 1) 3-Brom-2-Oxy-9,10-Anthrachinon. Sm. 249—252° (D.R.P. 148110 C. 1904 [1] 329).
- $C_{14}H_7O_4N$ *2) 2-Nitro-9,10-Phenanthrenchinon. Sm. 257—258° (B. 36, 3731 C. 1904 [1] 35; B. 37, 3085 C. 1904 [2] 1056).
 *7) β -Nitro-9,10-Phenanthrenchinon. Sm. 161—162° (B. 36, 3734 C. 1904 [1] 36).
 *8) 3-Nitro-9,10-Phenanthrenchinon. Sm. 276° (B. 37, 3084 C. 1904 [2] 1056).
 9) 2-Nitro-9,10-Anthrachinon. Sm. 184—185° (B. 37, 63 C. 1904 [1] 520).

- $C_{14}H_7O_4N$ 10) 4-Nitro-9,10-Phenanthrenchinon. Sm. 179—180° (*B.* 36, 3734 *C.* 1904 [1] 36).
C 59,8 — H 2,5 — O 22,8 — N 14,9 — M. G. 281.
- $C_{14}H_7O_4N_3$ 1) 3,4-Methylenäther d. 3,5-Dicyan-6-Oxy-2-Keto-4-[3,4-Dioxyphenyl]-2,5-Dihydropyridin (Piperonyldicyanglutakonimid). Sm. oberh. 300°. NH_4 , Ca + 5H₂O, Ba + 4H₂O, Co, Cu, Ag (*C.* 1903 [2] 714).
- $C_{14}H_7O_4Cl$ 3) *p*-Chlor-1,2-Dioxy-9,10-Anthrachinon (D.R.P. 151018 *C.* 1904 [1] 1382).
4) isom. *p*-Chlor-1,2-Dioxy-9,10-Anthrachinon. Sm. 265—267° (D.R.P. 77179). — *III, 302.
5) *p*-Chlor-1,7-Dioxy-9,10-Anthrachinon (D.R.P. 153194 *C.* 1904 [2] 575).
6) *p*-Chlor-2,6-Dioxy-9,10-Anthrachinon (D.R.P. 152175 *C.* 1904 [2] 168).
- $C_{14}H_7O_4Br$ 4) *p*-Brom-1,4-Dioxy-9,10-Anthrachinon (D.R.P. 151018 *C.* 1904 [1] 1382).
5) isom. *p*-Brom-1,2-Dioxy-9,10-Anthrachinon. Sm. 245° (D.R.P. 81965). — *III, 302.
- $C_{14}H_7O_6N_3$ 2) 2,7-Dinitro-9-Imido-10-Ketophenanthren. Sm. 358—360° u. Zers. (*B.* 36, 3741 *C.* 1904 [1] 37).
- $C_{14}H_7O_6Cl$ 2) *p*-Chlor-1,2,4-Trioxy-9,10-Anthrachinon (D.R.P. 151018 *C.* 1904 [1] 1382).
- $C_{14}H_7O_6Br$ 3) *p*-Brom-1,2,4-Trioxy-9,10-Anthrachinon (D.R.P. 151018 *C.* 1904 [1] 1382).
- $C_{14}H_7O_6N$ 3) 4-Nitro-1,3-Dioxy-9,10-Anthrachinon (D.R.P. 153770 *C.* 1904 [2] 752).
4) 5-Nitro-1,4-Dioxy-9,10-Anthrachinon. Sm. 244—245° (D.R.P. 90041 — *III, 305).
5) 1-Nitro-2,3-Dioxy-9,10-Anthrachinon (*B.* 36, 2939 *C.* 1903 [2] 886).
- $C_{14}H_7O_6N_3$ *4) 3-Nitrophenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 218 bis 219° (*C.* 1903 [2] 431).
*6) 4-Nitrophenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 248 bis 249° u. Zers. (*C.* 1903 [2] 431).
8) Monooxim d. 2,7-Dinitro-9,10-Phenanthrenchinon. Sm. 246 bis 248° u. Zers. (*B.* 36, 3740 *C.* 1904 [1] 37).
9) Monooxim d. 4,5-Dinitro-9,10-Phenanthrenchinon. Sm. 190 bis 191° u. Zers. (*B.* 36, 3748 *C.* 1904 [1] 38).
- $C_{14}H_7O_8Br$ 1) 4-Brom-1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinon (D.R.P. 114263 *C.* 1900 [2] 931). — *III, 315.
- $C_{14}H_8O_2N_2$ 3) Amid einer Säure (aus 2-Nitrobenzylalkohol). Sm. 294° (*C. r.* 136, 372 *C.* 1903 [1] 636).
- $C_{14}H_8O_2Cl_4$ *2) $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen. Sm. 237—238° (*A.* 325, 46 *C.* 1903 [1] 462).
- $C_{14}H_8O_2Cl_6$ *1) $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen. Sm. 240° u. Zers. + 2 Molec. Essigsäure (*A.* 325, 51 *C.* 1903 [1] 462).
- $C_{14}H_8O_2Br_2$ 4) 2-Dibromacetyl- β -Naphtofuran. Sm. 177° (*B.* 36, 2867 *C.* 1903 [2] 832).
5) 9,10-Phenanthrenchinondibromid (*B.* 37, 3556 *C.* 1904 [2] 1400).
- $C_{14}H_8O_2Br_4$ 2) $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthen. Sm. 269° (*A.* 325, 30 *C.* 1903 [1] 460).
- $C_{14}H_8O_2Br_8$ 1) $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthen. Zers. bei 265° (*A.* 325, 32 *C.* 1903 [1] 460).
- $C_{14}H_8O_3N_2$ C 66,7 — H 3,2 — O 19,0 — N 11,1 — M. G. 252.
1) 1-Diazo-9,10-Anthrachinon. Sulfat (*B.* 37, 4185 *C.* 1904 [2] 1742).
2) 2-Diazo-9,10-Anthrachinon. Nitrat (*B.* 37, 64 *C.* 1904 [1] 520).
- $C_{14}H_8O_3Cl_2$ 2) Dichlordisalicylaldehyd. Sm. 172° (*Am.* 14, 295; *B.* 37, 4023).
- $C_{14}H_8O_3Br_6$ 1) α -Methyläther d. 2,3,5,2',3',5'-Hexabrom- α ,4',4'-Trioxydiphenylmethan. Sm. 179° u. Zers. (*A.* 330, 77 *C.* 1904 [1] 1148).
- $C_{14}H_8O_4N_2$ *2) 9,10-Dinitroanthracen. Sm. 294° (*A.* 330, 162, 167 *C.* 1904 [1] 890).
*8) 4-Nitrophenylimid d. Benzol-1,2-Dicarbonsäure (D.R.P. 141893 *C.* 1903 [1] 1325).
- *13) Phenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 135° (138°) (*C.* 1903 [2] 431; *B.* 37, 2610 *C.* 1904 [2] 522).

- $C_{14}H_9O_4N_2$ 17) 5-Nitro-1-Amido-9,10-Anthrachinon. Sm. 200° (D.R.P. 78772; D.R.P. 147851 C. 1904 [1] 132). — *III, 298.
- 18) 8-Nitro-1-Amido-9,10-Anthrachinon (D.R.P. 147851 C. 1904 [1] 132).
- 19) 3-Nitro-2-Amido-9,10-Anthrachinon. Sm. 305—306° (D.R.P. 148109 C. 1904 [1] 230).
- 20) Monooxim d. 2-Nitro-9,10-Phenanthrenchinon. Sm. 213° u. Zers. (B. 36, 3732 C. 1904 [1] 35).
- 21) Monooxim d. 4-Nitro-9,10-Phenanthrenchinon. Sm. 169—170° (B. 36, 3736 C. 1904 [1] 36).
- $C_{14}H_9O_4N_4$ 22) Nitroisopyrophthalon. Sm. 199° (B. 36, 1661 C. 1903 [2] 40).
- 2) $\alpha\beta$ -Di[2,4-Dinitrophenyl]äthen. Sm. 266—267° (B. 37, 3599 C. 1904 [2] 1500).
- 3) 1,5-Bisdiazo-9,10-Anthrachinon. Sulfat (B. 37, 4186 C. 1904 [2] 1742).
- $C_{14}H_9O_4Cl_2$ 2) 3,3'-Dichlorbiphenyl-4,4'-Dicarbonsäure. Sm. 287—288° (Soc. 85, 9 C. 1904 [1] 376, 729).
- $C_{14}H_9O_4Br_2$ 1) 4,4'-Dibrombiphenyl-2,2'-Dicarbonsäure. Sm. 277—278° (B. 37, 3569 C. 1904 [2] 1402).
- $C_{14}H_9O_4Br_4$ 1) Diacetat d. 1,4,6,7-Tetrabrom-2,3-Dioxynaphtalin. Sm. 237° (A. 334, 363 C. 1904 [2] 1035).
- $C_{14}H_9O_5Br_4$ 1) Anhydrid d. $\alpha\beta\gamma\delta$ -Tetrabrom- $\alpha\delta$ -Di[2-Furanyl]butan- $\beta\gamma$ -Dicarbonsäure. Sm. 196° (Soc. 85, 190 C. 1904 [1] 645, 925).
- $C_{14}H_9O_5S$ 3) 9,10-Anthrachinon-1-Sulfonsäure. K (B. 36, 4197 C. 1904 [1] 290; B. 37, 67 C. 1904 [1] 667; B. 37, 331 C. 1904 [1] 667; B. 37, 646 C. 1904 [1] 893; D.R.P. 149801 C. 1904 [1] 1043).
- $C_{14}H_9O_6S$ 6) 1-Oxy-9,10-Anthrachinon-6-Sulfonsäure. Na (D.R.P. 145188 C. 1903 [2] 1037).
- $C_{14}H_9O_7S$ 8) isom. 1,2-Dioxy-9,10-Anthrachinon- β -Sulfonsäure (B. 36, 4199 C. 1904 [1] 291).
- 9) 1,4-Dioxy-9,10-Anthrachinon-2-Sulfonsäure (D.R.P. 153129 C. 1904 [2] 751).
- 10) isom. 1,4-Dioxy-9,10-Anthrachinon- β -Sulfonsäure (D.R.P. 84505). — *III, 305.
- $C_{14}H_9O_5N_2$ *2) 4,4'-Dinitrobiphenyl-2,2'-Dicarbonsäure + H_2O . Sm. 253° (B. 36, 3740 C. 1904 [1] 37).
- *3) 6,6'-Dinitrobiphenyl-2,2'-Dicarbonsäure. Sm. 303° u. Zers. (B. 36, 3746 C. 1904 [1] 37).
- $C_{14}H_9O_6S$ 4) 1,2,4-Trioxo-9,10-Anthrachinon-3-Sulfonsäure (D.R.P. 153129 C. 1904 [2] 751).
- 5) 1,2,4-Trioxo-9,10-Anthrachinon-5-[oder 8]-Sulfonsäure (B. 37, 71 C. 1904 [1] 666).
- 6) 1,2,4-Trioxo-9,10-Anthrachinon-8-Sulfonsäure (D.R.P. 155045 C. 1904 [2] 1270).
- 7) 1,2,4-Trioxo-9,10-Anthrachinon- β -Sulfonsäure (D.R.P. 84774, 97688). — *III, 312.
- 8) 1,4- β -Trioxo-9,10-Anthrachinon-2-Sulfonsäure (D.R.P. 153129 C. 1904 [2] 751).
- $C_{14}H_9O_6S_2$ *1) 9,10-Anthrachinon-1,5-Disulfonsäure (B. 36, 4197 C. 1904 [1] 290; B. 37, 68 C. 1904 [1] 666).
- *2) 9,10-Anthrachinon-1,6-Disulfonsäure (B. 36, 4197 C. 1904 [1] 290; B. 37, 69 C. 1904 [1] 666).
- 9) 9,10-Anthrachinon-1,7-Disulfonsäure (B. 36, 4197 C. 1904 [1] 290; B. 37, 69 C. 1904 [1] 666).
- 10) 9,10-Anthrachinon-1,8-Disulfonsäure (B. 36, 4197 C. 1904 [1] 290; B. 37, 68 C. 1904 [1] 666).
- $C_{14}H_9O_{10}S_2$ 2) 1,2-Dioxy-9,10-Anthrachinon- β -Disulfonsäure (D.R.P. 56952). — *III, 304.
- 3) 1,5-Dioxy-9,10-Anthrachinon- β -Disulfonsäure (D.R.P. 96364 C. 1898 [1] 1255). — *III, 306.
- 4) 1,6-Dioxy-9,10-Anthrachinon- β -Disulfonsäure. K_2 (B. 36, 2941 C. 1903 [2] 886).
- 5) 2,7-Dioxy-9,10-Anthrachinon- β -Disulfonsäure. K_2 (D.R.P. 99612 C. 1899 [1] 399). — *III, 309.

- $C_{14}H_3O_{12}S_2$ 2) 1,3,5,7-Tetraoxy-9,10-Anthrachinon-?-Disulfonsäure. Na_2 (D.R.P. 70803). — *III, 313.
- $C_{14}H_3O_{14}S_2$ 1) 1,2,4,5,6,8-Hexaoxy-9,10-Anthrachinon-3,7-Disulfonsäure (D.R.P. 75490, 94397, 104244, 104367, 104750, 107238 C. 1903 [2] 1130). — *III, 315.
- $C_{14}H_3N_2S_2$ 3) Biphenyl-2,4'-Disenöl (2,4'-Diisorhodanbiphenyl). Sm. 94° (B. 36, 4092 C. 1904 [1] 269).
- $C_{14}H_3N_3Cl$ 2) α -Chlorindophenazin. Sm. oberh. 300° (B. 35, 4331 C. 1903 [1] 292).
3) β -Chlorindophenazin. Sm. 310° (B. 35, 4332 C. 1903 [1] 292).
- $C_{14}H_3N_3Br$ 1) Bromindophenazin. Sm. $279-280^\circ$ (B. 35, 4333 C. 1903 [1] 292).
- $C_{14}H_5OCl$ 1) 1-Chlor-2-Phenylbenzofuran. Sd. 191°_{18} (B. 36, 3983 C. 1904 [1] 171).
- $C_{14}H_5OBr$ 2) 4-Brom-1-Phenylbenzofuran. Sm. 148° (B. 36, 3982 C. 1904 [1] 171).
3) 1-Brom-2-Phenylbenzofuran. Sd. $189-191^\circ_{20}$ (B. 36, 4007 C. 1904 [1] 175).
- $C_{14}H_9O_2N$ *5) 9-Nitroanthracen. Sm. $143-144^\circ$ (A. 330, 165 C. 1904 [1] 890).
*8) 1-Amido-9,10-Anthrachinon (B. 35, 3922 C. 1903 [1] 88; D.R.P. 148110 C. 1904 [1] 329; D.R.P. 149801 C. 1904 [1] 1043).
*9) 2-Amido-9,10-Anthrachinon (D.R.P. 148110 C. 1904 [1] 329).
*10) 2-Amido-9,10-Phenanthrenchinon (C. 1904 [1] 461).
*11) 2-Benzoylanthranil (B. 36, 2766 C. 1903 [2] 835).
*12) Pyrophthalon. Sm. 260° u. Zers. (283°) (B. 36, 1654 C. 1903 [2] 39; B. 36, 3916 C. 1904 [1] 97; B. 37, 3025 C. 1904 [2] 1411).
*18) Phenylimid d. Benzol-1,2-Dicarbonsäure. Sm. 203° (C. 1903 [2] 432; B. 36, 1000 C. 1903 [1] 1131).
*19) Phenylisimid d. Benzol-1,2-Dicarbonsäure. Sm. $120-122^\circ$ (R. 21, 339 C. 1903 [1] 156).
*23) 9-Nitrophenanthren. Sm. $116-117^\circ$. Pikrat (B. 36, 2511 C. 1903 [2] 505).
27) 3-Keto-2-Phenylindol-1-Oxyd (C. 1904 [1] 1356).
28) 1,3-Diketo-2-Phenyl-2,3-Dihydro-5-Isobenzazol + H_2O . HCl + H_2O , Ba + $2H_2O$, Ag (B. 37, 2142 C. 1904 [2] 234).
29) Laktan d. 4-[α -Oxy- β -Phenyläthényl]pyridin-3-Carbonsäure (Benzalmerid). Sm. $178-180^\circ$ (B. 37, 2140 C. 1904 [2] 234).
30) Isopyrophthalon. Sm. 280° (283°) (B. 36, 1657 C. 1903 [2] 39; B. 36, 3916 C. 1904 [1] 97; B. 37, 3024 C. 1904 [2] 1411).
- $C_{14}H_9O_2N_3$ *4) Nitril d. 2,6-Diketo-4-[3-Methylphenyl]-1,2,3,6-Tetrahydro-pyridin-3,5-Dicarbonsäure. NH_4 , Cu + $6H_2O$, Ag (A. 325, 209 C. 1903 [2] 439).
5) 3,4-Methylenäther d. 3-[3,4-Dioxyphenyl]-1,2,4-Benztriazin. Sm. 154° (C. 1903 [2] 427).
- $C_{14}H_9O_2Cl_3$ 1) Benzoat d. 2,3,5-Trichlor-4-Oxy-1-Methylbenzol. Sm. 89° (A. 328, 281 C. 1903 [2] 1245).
- $C_{14}H_9O_2Br$ 3) 2-Bromacetyl- β -Naphtofuran. Sm. 113° (B. 36, 2867 C. 1903 [2] 832).
- $C_{14}H_9O_2Br_2$ 1) Benzoat d. 3,5-Dibrom-2-Oxy-1-Brommethylbenzol. Sm. 119 bis 120° (A. 332, 199 C. 1904 [2] 211).
- $C_{14}H_9O_3N$ *2) Nitroanthron. Sm. 135° (148° u. Zers.) (A. 330, 171 C. 1904 [1] 891; A. 330, 177 C. 1904 [1] 891).
*7) 4-Amido-1-Oxy-9,10-Anthrachinon. Sm. $207-208^\circ$ (B. 35, 3923 C. 1903 [1] 88; D.R.P. 154353 C. 1904 [2] 1013).
*13) 4-Oxyphenylimid d. Benzol-1,2-Dicarbonsäure. Sm. $287-288^\circ$ (B. 36, 1000 C. 1903 [1] 1131).
17) 5-Amido-1-Oxy-9,10-Anthrachinon. Sm. $215-216^\circ$ (210°). Na (B. 35, 3925 C. 1903 [1] 88; D.R.P. 148875 C. 1904 [1] 556; D.R.P. 149780 C. 1904 [1] 909).
18) 6-Amido-1-Oxy-9,10-Anthrachinon (B. 36, 2936 C. 1903 [2] 885).
19) 8-Amido-1-Oxy-9,10-Anthrachinon. Sm. $214-215^\circ$ (230°) (B. 35, 3927 C. 1903 [1] 89; D.R.P. 148875 C. 1904 [1] 556; D.R.P. 149780 C. 1904 [1] 909).
20) 10-Hydroxyloximido-9-Keto-9,10-Dihydroanthracen (Isonitrosoanthron). Na (A. 330, 178 C. 1904 [1] 891).
21) Acetat d. 7-Oximido-8-Ketoacenaphten. Sm. 247° (G. 33 [1] 43 C. 1903 [1] 881).

- $C_{14}H_9O_3N$ 22) Acetat d. 2-Naphtisatin. Sm. 195° (*B.* 36, 1738 *C.* 1903 [2] 119).
- $C_{14}H_9O_3N_3$ 8) 4-Nitro-2-Acetyldiazol. Sm. 162—163° (*B.* 37, 2584 *C.* 1904 659).
- 9) 6-Nitro-2-Benzoyldiazol. Sm. 165—165,5° (*B.* 37, 2578 *C.* 1904 [2] 658).
- 10) Nitril d. 3-[3-Nitrobenzoyl]amidobenzol-1-Carbonsäure. Sm. 196,5 bis 197° (*C.* 1904 [2] 102).
- 11) Nitril d. 3-[4-Nitrobenzoyl]amidobenzol-1-Carbonsäure. Sm. 250 bis 251° (*C.* 1904 [2] 102).
- $C_{14}H_9O_3Cl$ 3) 2-[4-Chlorbenzoyl]benzol-1-Carbonsäure. Sm. 147—148° (151—153°) (*D.R.P.* 75288; *D.R.P.* 148110 *C.* 1904 [1] 329). — *II, 1000.
- $C_{14}H_9O_3Br$ 4) 2-[4-Brombenzoyl]benzol-1-Carbonsäure. Sm. 169° (*D.R.P.* 148110 *C.* 1904 [1] 329).
- $C_{14}H_9O_4N$ *5) Diäthylester d. 4-Methylphenylamidomalonsäure (*Am.* 30, 142 *C.* 1903 [2] 721).
- 14) 2-Nitro-9,10-Dioxyphenanthren. Sm. 220° (*B.* 36, 3732 *C.* 1904 [1] 35).
- 15) 4-Amido-1,8-Dioxy-9,10-Anthrachinon (*B.* 35, 3927 *C.* 1903 [1] 89).
- $C_{14}H_9O_4N_3$ 7) Nitril d. 6-Oxy-2-Keto-4-[4-Oxy-3-Methoxyphenyl]-2,5-Dihydro-pyridin-3,5-Dicarbonsäure. $NH_4 + 2\frac{1}{2}H_2O$, Ag (*C.* 1904 [2] 902).
- $C_{14}H_9O_4Br$ 3) 4-Brombiphenyl-2,2'-Dicarbonsäure. Sm. 238—239° (*B.* 37, 3566 *C.* 1904 [2] 1402).
- 4) 5-Brombiphenyl-2,2'-Dicarbonsäure. Sm. 257° u. Zers. (*B.* 37, 3572 *C.* 1904 [2] 1403).
- $C_{14}H_9O_5N$ 9) 2-[3-Nitrobenzoyl]benzol-1-Carbonsäure. Sm. 186—187° (*D.R.P.* 148110 *C.* 1904 [1] 329).
- 10) Gem. Anhydrid d. Benzolcarbonsäure u. 4-Nitrobenzol-1-Carbonsäure. Sm. 130° (*B.* 36, 2537 *Ann.* *C.* 1903 [2] 720).
- $C_{14}H_9O_6N$ *2) 4-Nitrobiphenyl-2,2'-Dicarbonsäure. Sm. 214—216° (*B.* 36, 3732 *C.* 1904 [1] 35).
- 3) 5-Nitrobiphenyl-2,2'-Dicarbonsäure. Sm. 268° (*B.* 36, 3734 *C.* 1904 [1] 35).
- 4) 6-Nitrobiphenyl-2,2'-Dicarbonsäure. Sm. 248—250° u. Zers. (*B.* 36, 3737 *C.* 1904 [1] 36).
- $C_{14}H_9O_6N_3$ 9) 9,9,10-Trinitro-9,10-Dihydroanthracen. Sm. 139—140° u. Zers. (*A.* 330, 162 *C.* 1904 [1] 890).
- 10) 3,9-Dinitro-6-Acetylphenoxazin. Sm. 192° (*B.* 36, 477 *C.* 1903 [1] 651).
- $C_{14}H_9O_6N_3$ *1) 4,6-Dinitrodiphenylamin-2,2'-Dicarbonsäure. Sm. 251—252°. Na (*G.* 33 [2] 330 *C.* 1904 [1] 278).
- 2) 4,6-Dinitrodiphenylamin-2,3'-Dicarbonsäure. Sm. 273° (*G.* 33 [2] 332 *C.* 1904 [1] 278).
- 3) 4,6-Dinitrodiphenylamin-2,4'-Dicarbonsäure. Sm. 264—265° (*G.* 33 [2] 332 *C.* 1904 [1] 278).
- $C_{14}H_9O_9N_5$ C 43,0 — H 2,3 — O 36,8 — N 17,9 — M. G. 391.
- 1) Acetyl-2,4,2',4'-Tetranitrodiphenylamin. Sm. 178° (*C.* 1903 [2] 1109).
- $C_{14}H_9O_{10}N_5$ C 41,3 — H 2,2 — O 39,3 — N 17,2 — M. G. 407.
- 1) Acetat d. 2',4',P,P-Tetranitro-4-Oxydiphenylamin. Sm. 161° (*B.* 37, 1731 *C.* 1904 [1] 1521).
- $C_{14}H_9N_3Cl_2$ 1) 2,5-Di[3-Chlorphenyl]-1,3,4-Triazol. Sm. 220° (*J. pr.* [2] 69, 384 *C.* 1904 [2] 536).
- $C_{14}H_{10}ON_2$ *5) 2,5-Diphenyl-1,3,4-Oxdiazol. Sm. 138° (*J. pr.* [2] 69, 157 *C.* 1904 [1] 1274).
- *8) 1-Benzoylbenzimidazol (*B.* 37, 3116 *C.* 1904 [2] 1316).
- *9) 4-Oxy-2-Phenyl-1,3-Benzodiazin. Sm. 235° (*B.* 36, 2385 *C.* 1903 [2] 569).
- *11) 4-Keto-2-Phenyl-1,4-Dihydro-1,3-Benzodiazin. Sm. 233—234° (*J. pr.* [2] 67, 457 *C.* 1903 [1] 1421).
- 24) 4,4'-Azoxy- α - β -Diphenyläthen (p-Azoxystilben) (*C.* 1903 [1] 1414).
- 25) α -Pyrophtalin. Sm. 185°. HCl, (HCl, HgCl₂), (2HCl, TiCl₃), (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (*B.* 36, 1663 *C.* 1903 [2] 40).
- 26) β -Pyrophtalin. Sm. 255°. HCl, (HCl, HgCl₂), (2HCl, TiCl₃), (2HCl, PtCl₄), (HCl, AuCl₃), H₂SO₄ (*B.* 36, 1664 *C.* 1903 [2] 41).

- $C_{14}H_{10}ON_2$ 27) 3-Keto-1-Benzyliden-2,3-Dihydro-2,5-Isobenzazol (Benzalherimidin). Sm. 234—236° (*B.* 37, 2145 *C.* 1904 [2] 235).
- 28) Aldehyd d. 2-Phenylindazol-2'-Carbonsäure. Sm. 94,5—95° (*C. r.* 137, 983 *C.* 1904 [1] 176; *Bl.* [3] 31, 872 *C.* 1904 [2] 661).
- 29) Nitril d. 3-Benzoylamidobenzol-1-Carbonsäure. Sm. 141,5—142° (*C.* 1904 [2] 101).
- $C_{14}H_{10}ON_4$ 1) Aldazin d. Azoxybenzol-3,3'-Dicarbonsäurealdehyd (*B.* 36, 3472 *C.* 1903 [2] 1269).
- $C_{14}H_{10}OCl_2$ *5) Aldehyd d. Di[4-Chlorphenyl]essigsäure (*C.* 1903 [2] 1052).
- $C_{14}H_{10}OJ_2$ 1) 10-Oxy-9-Phenylanthracendijodid (*B.* 37, 3343 *C.* 1904 [2] 1057).
- $C_{14}H_{10}O_2N_2$ *3) 1,5-Diamido-9,10-Anthrachinon (D.R.P. 147851 *C.* 1904 [1] 132; *C.* 1904 [1] 461; *B.* 37, 4180 *C.* 1904 [2] 1741).
- *6) 2,7-Diamido-9,10-Phenanthrenchinon. Sm. oberh. 315° (*C.* 1904 [1] 462).
- *33) Azodibenzoyl. Sm. 118° u. Zers. (*J. pr.* [2] 70, 272 *C.* 1904 [2] 1543; *J. pr.* [2] 70, 289 *C.* 1904 [2] 1566).
- *40) Aldehyd d. Azobenzol-4,4'-Dicarbonsäure. Sm. 237—238° (*B.* 36, 2306 *C.* 1903 [2] 428; *Bl.* [3] 31, 453 *C.* 1904 [1] 1498).
- 41) 2,9-Diamido-9,10-Anthrachinon (D.R.P. 148109 *C.* 1904 [1] 230).
- 42) 4,5-Diamido-9,10-Phenanthrenchinon. Sm. 235° (*B.* 36, 3750 *C.* 1904 [1] 38).
- 43) 3-Nitroso-1-Oxy-2-Phenylindol. Sm. 240° (*C.* 1904 [1] 1356).
- 44) Oxim d. Isoprophtalon. Sm. 240° (*B.* 36, 1662 *C.* 1903 [2] 40).
- 45) 2-Phenylindazol-2'-Carbonsäure? Sm. 203—204° (204—205°) (*C. r.* 136, 372 *C.* 1903 [1] 635; *C. r.* 137, 983 *C.* 1904 [1] 176; *C. r.* 138, 1277 *C.* 1904 [2] 121; *Bl.* [3] 31, 873 *C.* 1904 [2] 661).
- 46) Aldehyd d. Azobenzol-3,3'-Dicarbonsäure. Sm. 150° (*C. r.* 138, 289 *C.* 1904 [1] 722).
- 47) Phenylimid d. 3-Amidobenzol-1,2-Dicarbonsäure. Sm. 185—187° (*B.* 37, 2611 *C.* 1904 [2] 522).
- 48) 2-Amidophenylimid d. Benzol-1,2-Dicarbonsäure. Sm. 184—186° (*A.* 327, 49 *C.* 1903 [1] 1336).
- 49) 3-Amidophenylimid d. Benzol-1,2-Dicarbonsäure. Sm. 190° (178°) (*B.* 10, 1165; *A.* 327, 42 *C.* 1903 [1] 1336).
- 50) 4-Amidophenylimid d. Benzol-1,2-Dicarbonsäure. Sm. 250° (182°) (*B.* 10, 1164; *A.* 327, 43 *C.* 1903 [1] 1336).
- 51) 1,2-Phenylenamid d. Benzol-1,2-Dicarbonsäure. Sm. 278° (277°) u. Zers. (*G.* 24 [1] 145; *A.* 327, 41 *C.* 1903 [1] 1336). — IV, 563.
- 52) Verbindung (aus p-Hydroxylaminbenzaldehyd). Sm. 205—206° (*C.* 1903 [1] 147).
- $C_{14}H_{10}O_2N_4$ 7) 6-[4-Nitrobenzyliden]amidindazol. Sm. 215—216° (*B.* 37, 2580 *C.* 1904 [2] 659).
- 8) 7-[4-Nitrobenzyliden]amidindazol. Sm. 227—229° (*B.* 37, 2577 *C.* 1904 [2] 658).
- $C_{14}H_{10}O_2Cl_2$ *2) 2,6-Dichlor-4-Methylphenylester d. Benzolcarbonsäure. Sm. 91° (*A.* 328, 278 *C.* 1903 [2] 1245).
- $C_{14}H_{10}O_2Cl_4$ 2) $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 160° (*A.* 325, 50 *C.* 1903 [1] 462).
- $C_{14}H_{10}O_2S_2$ *1) Dibenzoxydisulfid. Sm. 129—130° (133°) (*B.* 36, 1010 *C.* 1903 [1] 1077; *B.* 36, 2272 *C.* 1903 [2] 563).
- $C_{14}H_{10}O_3N_2$ *6) Aldehyd d. Azoxybenzol-4,4'-Dicarbonsäure. Sm. 190° (*C.* 1903 [1] 147; *Am.* 28, 475 *C.* 1903 [1] 327; *B.* 36, 3474 *C.* 1903 [2] 1270).
- 12) 1-Amido-5-Hydroxylamido-9,10-Anthrachinon (D.R.P. 147851 *C.* 1904 [1] 132).
- 13) cis- γ -Keto- α -[2-Nitrophenyl]- γ -[2-Pyridyl]propen. Sm. 153° (*B.* 35, 4064 *C.* 1903 [1] 91).
- 14) trans- γ -Keto- α -[2-Nitrophenyl]- γ -[2-Pyridyl]propen. Sm. 141° (2HCl, PtCl₄), (HCl, AuCl₃) (*B.* 35, 4065 *C.* 1903 [1] 91).
- 15) Aldehyd d. Azoxybenzol-3,3'-Dicarbonsäure. Sm. 129° (*Am.* 28, 479 *C.* 1903 [1] 328; *B.* 36, 3470 *C.* 1903 [2] 1269; *B.* 36, 3801 *C.* 1904 [1] 25).
- 16) Monocaldehyd d. Azobenzol-3,3'-Dicarbonsäure. Sm. 163°. Na (*B.* 36, 3473 *C.* 1903 [2] 1269).

- $C_{14}H_{10}O_3N_2$ 17) Monoaldehyd d. Azobenzol-4,4'-Dicarbonsäure (B. 36, 3474 C. 1903 [2] 1270).
- $C_{14}H_{10}O_3S$ 10) Anthracen-1-Sulfonsäure. Na (B. 37, 70 C. 1904 [1] 666; B. 37, 648 C. 1904 [1] 892).
- $C_{14}H_{10}O_4N_2$ *4) $\alpha\beta$ -Di[4-Nitrophenyl]äthen. Sm. 280° (G. 32 [2] 356 C. 1903 [1] 629).
- *14) N-3-Formylphenyläther d. 3-Nitrobenzaloxim. Sm. 189—190° (B. 36, 2309 C. 1903 [2] 429).
- *15) N-4-Formylphenyläther d. 4-Nitrobenzaloxim. Sm. 224° (B. 36, 2306 C. 1903 [2] 428).
- *17) 9,10-Dinitro-9,10-Dihydroanthracen. Sm. 194° (A. 330, 170 C. 1904 [1] 891).
- 27) 4,5-Diamido-1,8-Dioxy-9,10-Anthrachinon (D.R.P. 100138 C. 1899 [1] 655). — *III, 308.
- 28) Nitrit d. 10-Nitro-9-Oxy-9,10-Dihydroanthracen. Sm. 125° u. Zers. (A. 330, 159 C. 1904 [1] 890).
- 29) 2-[2-Nitrobenzyliden]amidobenzol-1-Carbonsäure. Sm. 167—168° (B. 37, 595 C. 1904 [1] 881).
- 30) 2-[3-Nitrobenzyliden]amidobenzol-1-Carbonsäure. Sm. 198—200° (B. 37, 595 C. 1904 [1] 881).
- $C_{14}H_{10}O_4N_6$ 5) 6-Nitro-3-[5-Nitro-2-Methylphenylazo]indazol (B. 37, 2579 C. 1904 [2] 659).
- 6) 7-Nitro-3-[6-Nitro-2-Methylphenylazo]indazol. Sm. 250—251° (B. 37, 2576 C. 1904 [2] 658).
- $C_{14}H_{10}O_4Cl_2$ 4) Diacetat d. 1,4-Dichlor-2,3-Dioxynaphtalin. Sm. 140,5° (A. 334, 354 C. 1904 [2] 1054).
- $C_{14}H_{10}O_4Br_2$ 5) Diacetat d. 1,4-Dibrom-2,3-Dioxynaphtalin. Sm. 175° (A. 334, 362 C. 1904 [2] 1055).
- 5) Diacetat d. 6,7-Dibrom-2,3-Dioxynaphtalin. Sm. 155° (A. 334, 365 C. 1904 [2] 1055).
- $C_{14}H_{10}O_4Br_4$ 2) $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 280° u. Zers. (A. 325, 41 C. 1903 [1] 461).
- 3) isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan? Sm. 270° u. Zers. (A. 325, 43 C. 1903 [1] 461).
- $C_{14}H_{10}O_6N_2$ *11) Azoxybenzol-2,2'-Dicarbonsäure. Sm. 250—251° (237—242°) (B. 36, 374 C. 1903 [1] 578; B. 36, 2049 C. 1903 [2] 383; C. 1904 [1] 878).
- *12) Azoxybenzol-3,3'-Dicarbonsäure (B. 36, 3472 C. 1903 [2] 1269).
- 22) Nitrat d. 10-Nitro-9-Oxy-9,10-Dihydroanthracen. Sm. 78—79° u. Zers. (A. 330, 160 C. 1904 [1] 890).
- 23) 2-Nitrophenylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 145 bis 146° (A. 327, 55 C. 1903 [1] 1336).
- 24) 3-Nitrophenylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 240° (A. 327, 55 C. 1903 [1] 1336).
- 25) 4-Nitrophenylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 190 bis 192° (A. 327, 55 C. 1903 [1] 1336).
- $C_{14}H_{10}O_6N_2$ 6) p-Diamido-1,3,5,7-Tetraoxy-9,10-Anthrachinon (D.R.P. 81741, 81742, 106034, 119756). — *III, 313.
- $C_{14}H_{10}O_7S$ 1) 1,4,9,10-Tetraoxyanthracen-5-Sulfonsäure (D.R.P. 148767 C. 1904 [1] 558).
- 2) 1,4,9,10-Tetraoxyanthracen-6-Sulfonsäure (Chinizarinhydrärsulfonsäure) (D.R.P. 148767 C. 1904 [1] 558; C. 1904 [2] 340).
- $C_{14}H_{10}O_{10}N_4$ 2) Dimethyläther d. p-Tetranitro-4,4'-Dioxybiphenyl. Sm. 244,6° (Ann. 31, 138 C. 1904 [1] 809).
- $C_{14}H_{10}N_2S$ *1) 3,5-Diphenyl-1,2,4-Thiodiazol. Sm. 91°. (2HCl, PtCl₄) (J. pr. [2] 69, 45 C. 1904 [1] 521).
- *3) 2,5-Diphenyl-1,3,4-Thiodiazol. Sm. 141—142°; Sd. 259°₁₇ (J. pr. [2] 69, 158 C. 1904 [1] 1274).
- $C_{14}H_{10}N_2S_2$ *1) 2-Thiocarbonyl-4,5-Diphenyl-2,4-Dihydro-1,3,4-Thiodiazol (Endothiodiphenylthiobiazolin) (J. pr. [2] 67, 216 C. 1903 [1] 1260).
- 3) Phenylamid d. Benzthiazol-1-Thiocarbonsäure. Sm. 155° (B. 37, 3727 C. 1904 [2] 1450).
- $C_{14}H_{10}N_2Se$ *1) 3,5-Diphenyl-1,2,4-Selendiazol. Sm. 85°. (2HCl, PtCl₄) (B. 37, 2551 C. 1904 [2] 520).
- 2) 2,5-Diphenyl-1,3,4-Selendiazol. Sm. 156° (J. pr. [2] 69, 511 C. 1904 [2] 601).

- $C_{14}H_{10}N_3Cl$ 2) 5-Chlor-1,4-Diphenyl-1,2,3-Triazol. Sm. 137° (A. 335, 106 C. 1904 [2] 1232).
- $C_{14}H_{11}ON$ *17) 5-Keto-10-Methyl-5,10-Dihydroakridin (B. 37, 1567 C. 1904 [1] 1447).
- *24) 9-Amido-10-Oxyphenanthren (D.R.P. 141422 C. 1903 [1] 1197).
- 26) γ -Keto- α -Phenyl- γ -[2-Pyridyl]propan. Sm. 75°. HCl, (2HCl, PtCl₄) (B. 35, 4061 C. 1903 [1] 91).
- 27) 1-Keto-2-[2-Pyridyl]-2,3-Dihydroinden. Sm. 207,5° (B. 36, 3917 C. 1904 [1] 97).
- $C_{14}H_{11}ON_3$ *5) 2-Keto-1,3-Diphenyl-2,3-Dihydro-1,3,4-Triazol (1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Oxyd). Sm. 256° (J. pr. [2] 67, 263 C. 1903 [1] 1266).
- 22) α -Phenyl- β -[3-Cyanphenyl]harnstoff. Sm. 170,5—171° (C. 1904 [2] 102).
- 23) 5-Oxy-1,4-Diphenyl-1,2,3-Triazol. Sm. 150—151°. Na (A. 335, 102 C. 1904 [2] 1232).
- 24) 2-[2-Oximidomethylphenyl]indazol. Sm. 223° (Bl. [3] 31, 872 C. 1904 [2] 661).
- 25) 2-Amido-4-Keto-3-Phenyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 237 bis 238° (C. 1903 [2] 831).
- 26) 2-Phenylamido-4-Keto-3,4-Dihydro-1,3-Benzdiazin. Sm. 256° (C. 1903 [2] 831).
- 27) 3-Phenylamido-4-Keto-3,4-Dihydro-1,3-Benzdiazin. Sm. 140° (J. pr. [2] 69, 101 C. 1904 [1] 730).
- $C_{14}H_{11}ON_5$ C 63,4 — H 4,1 — O 6,0 — N 26,4 — M. G. 265.
- 1) Verbindung (aus 5-Oxy-1-Phenyl-1,2,3-Triazol). Sm. 131—132° (A. 335, 87 C. 1904 [2] 1231).
- 2) isom. Verbindung (aus 5-Oxy-1-Phenyl-1,2,3-Triazol). Sm. 162—163° (A. 335, 88 C. 1904 [2] 1231).
- $C_{14}H_{11}OCl$ *3) α -Keto- β -[4-Chlorphenyl]- α -Phenyläthan. Sm. 133° (J. pr. [2] 67, 379 C. 1903 [1] 1356).
- $C_{14}H_{11}O_2N$ *19) Imid d. Benzolcarbonsäure. Sm. 149° (Soc. 81, 1530 C. 1903 [1] 157).
- *22) 2-Naphtylimid d. Bernsteinsäure. Sm. 183° (B. 37, 1599 C. 1904 [1] 1418).
- 33) 3-Oxy-5-Methyl-1-Phenylbenzoxazol. Sm. 124—126° (B. 37, 3110 C. 1904 [2] 994).
- 34) 2-[α -Oximidoäthyl]- β -Naphtofuran. Sm. 207° (B. 36, 2867 C. 1903 [2] 832).
- 35) 6-Acetylphenoxazin. Sm. 142° (B. 36, 477 C. 1903 [1] 650).
- $C_{14}H_{11}O_2N_3$ *9) 1-[4-Methylphenyl]-1,2,3-Benzotriazol-5-Carbonsäure. Sm. 267° (A. 332, 88 C. 1904 [1] 1569).
- *19) 5-Keto-3-Oxy-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 163° (B. 36, 1367 C. 1903 [1] 1342).
- 23) 6-Nitro-2-Benzylindazol. Sm. 111—112° (B. 37, 2578 C. 1904 [2] 658).
- 24) 5-Nitro-2-Methyl-1-Phenylbenzimidazol. Sm. 170° (J. pr. [2] 69, 41 C. 1904 [1] 521).
- 25) p-Phenylazo-5-Oxy-1-Methylbenzoxazol. Sm. 91° (B. 35, 4206 C. 1903 [1] 147).
- 26) 1-[2-Methylphenyl]-1,2,3-Benzotriazol-5-Carbonsäure. Sm. 204,5° (A. 332, 86 C. 1904 [1] 1569).
- 27) 2-Acetylamido-3-Oxy-5,10-Naphtdiazin. Sm. noch nicht bei 340° (B. 35, 4305 C. 1903 [1] 344).
- $C_{14}H_{11}O_2Cl$ 6) Diphenylchloroessigsäure. Sm. 118—119° u. Zers. (B. 36, 145 C. 1903 [1] 466).
- $C_{14}H_{11}O_2Br$ 9) Benzoat d. 6-Brom-2-Oxy-1-Methylbenzol. Sm. 76° (B. 37, 1022 C. 1904 [1] 1203).
- $C_{14}H_{11}O_3N$ *20) 2-Benzoylamidobenzol-1-Carbonsäure. Sm. 183° (J. pr. [2] 69, 25 C. 1904 [1] 641).
- *32) Phenylmonamid d. Benzol-1,2-Dicarbonsäure (B. 36, 997 C. 1903 [1] 1131).
- 43) 3-[2-Oxybenzyliden]amidobenzol-1-Carbonsäure. Sm. 202—204° (B. 37, 595 C. 1904 [1] 881).

- C₁₄H₁₁O₃N** 44) 2-[3-Amidobenzoyl]benzol-1-Carbonsäure. Sm. 165° u. Zers. (D.R.P. 148110 C. 1904 [1] 329).
 45) 4-Phenylacetylpyridin-3-Carbonsäure. Sm. 187—188° u. Zers. Ag (B. 37, 2143 C. 1904 [2] 234).
 46) Äthylester d. 1-Ketoiden-3-Cyanessigsäure. Sm. 124° (B. 33, 2431). — *II, 1141.
 47) Benzoylamid d. 2-Oxybenzol-1-Carbonsäure. Sm. 122° (Soc. 81, 1533 C. 1903 [1] 157).
 48) Verbindung (aus α-Pikolin u. Phtalsäureanhydrid). Sm. 180° (B. 36, 1659 C. 1903 [2] 40).
- C₁₄H₁₁O₃N₂** 14) 3-Oximidomethylazobenzol-3'-Carbonsäure. Sm. 185° (B. 36, 3473 C. 1903 [2] 1270).
 15) Amid d. 4-Benzoxylphenylazoameisensäure. Sm. 191° u. Zers. (A. 334, 188 C. 1904 [2] 835).
- C₁₄H₁₁O₄N** *8) 4-Amidobiphenyl-2, 2'-Dicarbonsäure. Sm. 277° u. Zers. (B. 36, 3733 C. 1904 [1] 35).
 *12) 4-Nitro-2-Methylphenylester d. Benzolcarbonsäure. Sm. 128° (A. 330, 95 C. 1904 [1] 1075).
 *13) 4-Oxyphenylmonamid d. Benzol-1, 2-Dicarbonsäure. Sm. 220 bis 225° (B. 36, 998 C. 1903 [1] 1131).
 *17) 4'-Nitro-6-Oxy-3-Methyldiphenylketon. Sm. 142—143° (B. 36, 3892 C. 1904 [1] 93).
 *19) Methyläther d. 4'-Nitro-4-Oxydiphenylketon. Sm. 121° (B. 36, 3899 C. 1904 [1] 94).
 25) Methyläther d. 4'-Nitro-2-Oxydiphenylketon. Sm. 117—119° (B. 36, 3900 C. 1904 [1] 94).
 26) Diphenylamin-2, 2'-Dicarbonsäure. Sm. 300° u. Zers. (D.R.P. 145604, 145605 C. 1903 [2] 1099; D.R.P. 148179 C. 1904 [1] 412).
 27) Diphenylamin d. 2, 3'-Dicarbonsäure. Sm. 281—282° (D.R.P. 148179 C. 1904 [1] 412).
 28) Diphenylamin-2, 4'-Dicarbonsäure. Sm. 282—283° (D.R.P. 148179 C. 1904 [1] 412).
 29) 6-Amidobiphenyl-2, 2'-Dicarbonsäure. Sm. noch nicht bei 300° (B. 36, 3738 C. 1904 [1] 36).
 30) 2-Methyl-4-Phenylpyridin-5, 6-Dicarbonsäure. Sm. 100° u. Zers. Cu (B. 36, 2457 C. 1903 [2] 671).
 31) Äthylester d. p-Benzoylamidofuran-2-Carbonsäure. Sm. 99—100° (C. r. 136, 1455 C. 1903 [2] 292).
 32) 4-Nitro-3-Methylphenylester d. Benzolcarbonsäure. Sm. 75° (A. 330, 99 C. 1904 [1] 1076).
 33) 6-Nitro-3-Methylphenylester d. Benzolcarbonsäure. Sm. 76° (A. 330, 99 C. 1904 [1] 1076).
- C₁₄H₁₁O₄N₂** 31) s-Phenyl-3-Nitrobenzoylharnstoff. Sm. 224° (C. 1904 [1] 1559).
 32) Phenylamid d. 3-Nitrophenyloxaminsäure. Sm. 204° (Soc. 81, 1569 C. 1903 [1] 157).
- C₁₄H₁₁O₅N₃** 19) 3, 5-Dinitro-4-Acetylamidobiphenyl. Sm. 240—241° (B. 37, 883 C. 1904 [1] 1143).
- C₁₄H₁₁O₆N₃** *4) Acetat d. 4-[2, 4-Dinitrophenyl]amido-1-Oxybenzol. Sm. 137° (B. 36, 3265 C. 1903 [2] 1126).
 6) 2, 4-Dinitro-4'-Acetylamidodiphenyläther. Sm. 195° (B. 37, 1518 C. 1904 [1] 1596).
 7) 4', 6'-Dinitro-2-Methyldiphenylamin-2'-Carbonsäure. Sm. 171—172°. Na, K + H₂O (G. 33 [2] 325 C. 1904 [1] 278).
 8) 4', 6'-Dinitro-3-Methyldiphenylamin-2'-Carbonsäure. Sm. 203° (G. 33 [2] 327 C. 1904 [1] 278).
 9) 4', 6'-Dinitro-4-Methyldiphenylamin-2'-Carbonsäure. Sm. 220°. Na, K + H₂O (G. 33 [2] 327 C. 1904 [1] 278).
- C₁₄H₁₁NCl₂** 1) 5, 10-Dichlor-5-Methyl-5, 10-Dihydroakridin. Sm. 280° u. Zers. (Soc. 85, 1201 C. 1904 [2] 1059).
- C₁₄H₁₁NBr₂** 2) 5, 10-Dibrom-5-Methyl-5, 10-Dihydroakridin. Zers. 261° (Soc. 85, 1201 C. 1904 [2] 1060).
- C₁₄H₁₁NJ₂** 1) 5-Methylakridindijodid. Sm. 180—210° (Soc. 85, 1202 C. 1904 [2] 1060).

- $C_{14}H_{11}NSe$ 1) **Methyläther d. 5 - Selenoakridin.** Sm. 108°. (2HCl, PtCl₄), Pikrat (*J. pr.* [2] 68, 93 *C.* 1903 [2] 446).
- $C_{14}H_{11}N_3S$ 8) **α -Phenyl- β -[3-Cyanphenyl]thioharnstoff** (*C.* 1904 [2] 102).
9) **1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Disulfid.** Sm. 214 bis 215° (*J. pr.* [2] 67, 249 *C.* 1903 [1] 1264).
- $C_{14}H_{11}ClBr_2$ 2) **$\alpha\beta$ -Dibrom- α -Phenyl- β -[2-Chlorphenyl]äthan.** Sm. 176° (*B.* 35, 3971 *C.* 1903 [1] 31).
- $C_{14}H_{12}ON_2$ *24) **3-Acetylamidocarbazol.** Sm. 217° (*A.* 337, 101 *C.* 1904 [1] 1570).
*29) **Verbindung** (aus 2-Amidobenzol-1-Carbonsäurealdehyd). Sd. 250°₁₇ (*C. r.* 136, 371 *C.* 1903 [1] 635).
40) **2-[2-Oxymethylphenyl]indazol.** Sm. 56—57°; Sd. 250°₂₀₋₂₅. (2HCl, PtCl₄) (*C. r.* 138, 1277 *C.* 1904 [2] 121).
41) **3,8-Dimethyldiphenazonoxyd.** Sm. 209° (*B.* 37, 26 *C.* 1904 [1] 523).
42) **Base** (aus d. Äthyläther d. 3-Oxy-s-Diphenylhydrazin). Pikrat (*B.* 36, 4082 *C.* 1904 [1] 268).
43) **Aldehyd d. 4-Methylazobenzol-4'-Carbonsäure.** Sm. 177,5° (*B.* 36, 2311 *C.* 1903 [2] 429).
44) **Nitril d. α -Phenylamido- α -[2-Oxyphenyl]essigsäure.** Sm. 113—114° (*B.* 37, 4084 *C.* 1904 [2] 1723).
- $C_{14}H_{12}O_2N_2$ *4) **α -Phenyl- β -Benzoylharnstoff.** Sm. 210° (205°) (*B.* 36, 3220 *C.* 1903 [2] 1056; *Ann.* 30, 418 *C.* 1904 [1] 241).
*8) **α -Benzildioxim.** K, Fe (*Soc.* 83, 44 *C.* 1903 [1] 442).
*21) **s-Dibenzoylhydrazin.** Sm. 237—239°. Na, K, Pb, Ag, HgCl (*J. pr.* [2] 69, 156 *C.* 1904 [1] 1274; *J. pr.* [2] 70, 268 *C.* 1904 [2] 1543; *J. pr.* [2] 70, 281 *C.* 1904 [2] 1566; *J. pr.* [2] 70, 303 *C.* 1904 [2] 1567).
*53) **s-Di[Phenylamid] d. Oxalsäure.** Sm. 245° (*A.* 332, 266 *C.* 1904 [2] 700).
77) **2-[3-Nitrobenzyliden]amido-1-Methylbenzol.** Sm. 78—79° (*Soc.* 85, 1179 *C.* 1904 [2] 1216).
78) **4-[3-Nitrobenzyliden]amido-1-Methylbenzol.** Sm. 96° (*B.* 36, 1024 *C.* 1903 [1] 1268).
79) **4-[4-Nitrobenzyliden]amido-1-Methylbenzol.** Sm. 124,5° (*B.* 36, 1022 *C.* 1903 [1] 1268).
80) **2-Nitro-3-Methylbenzylidenamidobenzol** (2-Nitro-3-Phenylimido-methyl-1-Methylbenzol). Sm. 51,5° (*C.* 1900 [2] 751). — *III, 40.
81) **6-Nitro-3-Methylbenzylidenamidobenzol** (4-Nitro-3-Phenylimido-methyl-1-Methylbenzol). Sm. 79° (*C.* 1900 [2] 751). — *III, 40.
82) **4,5-Diamido-9,10-Dioxyphenanthren.** 2HCl (*B.* 36, 3749 *C.* 1904 [1] 38).
83) **4,4'-Di[Oximidomethyl]biphenyl.** Sm. 204° (*A.* 332, 77 *C.* 1904 [2] 43).
84) **3-Nitro-9-Äthylcarbazol.** Sm. 108° (*C.* 1904 [1] 1570).
85) **Phenylimidophenylamidoessigsäure.** Sm. 100° u. Zers. (*Soc.* 85, 995 *C.* 1904 [2] 831).
86) **2-Methylazobenzol-2'-Carbonsäure.** Sm. 148° (*D.R.P.* 145063 *C.* 1903 [2] 973).
87) **Acetat d. 3-Oxyazobenzol.** Sm. 67,5° (*B.* 36, 4104 *C.* 1904 [1] 271).
88) **Amid d. 4-Phenylacetylpyridin-3-Carbonsäure.** Sm. 205—206° u. Zers. (*B.* 37, 2144 *C.* 1904 [2] 234).
89) **Monophenyldiamid d. Benzol-1,2-Dicarbonsäure** (*J. pr.* [2] 55, 265). — *II, 1054.
- $C_{14}H_{12}O_2N_4$ *5) **Formazylcarbonsäure.** Sm. 163° (*J. pr.* [2] 67, 401 *C.* 1903 [1] 1346).
*10) **1,4,5,8-Tetraamido-9,10-Anthrachinon** (*D.R.P.* 143804 *C.* 1903 [2] 475).
- $C_{14}H_{12}O_2N_6$ C 56,8 — H 4,0 — O 10,8 — N 28,4 — M. G. 296.
1) **7,8-Disemicarbazonacenaphten.** Sm. 271° (*G.* 33 [1] 47 *C.* 1903 [1] 882).
- $C_{14}H_{12}O_2Cl_2$ 4) **$\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[4-Oxyphenyl]äthan** (*A.* 335, 170 *C.* 1904 [2] 1129).
5) **Di[2-Chlorphenyläther] d. $\alpha\beta$ -Dioxyäthan.** Sm. 103—104° (*B.* 36, 2874 *C.* 1903 [2] 834).
- $C_{14}H_{12}O_2Br_2$ 2) **$\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[4-Oxyphenyl]äthan** (*A.* 335, 167 *C.* 1904 [2] 1128).
3) **α -Methyläther d. 3,5-Dibrom- α ,4-Dioxydiphenylmethan.** Sm. 126° (*A.* 334, 381 *C.* 1904 [2] 1052).

- $C_{14}H_{12}O_3Br_2$ 4) Di[2-Bromphenyläther] d. $\alpha\beta$ -Dioxyäthan. Sm. 110—111° (B. 36, 2875 C. 1903 [2] 834).
- $C_{14}H_{12}O_2S$ 3) Benzyläther d. 5-Merkapto-2-Methyl-1,4-Benzochinon. Sm. 136 bis 137° (A. 336, 163 C. 1904 [2] 1300).
- $C_{14}H_{12}O_3N_2$ *25) Anhydrid d. 3-Amidobenzol-1-Carbonsäure (A. 326, 241 C. 1903 [1] 868).
- 62) 3-Nitro-4-Acetylamidobiphenyl. Sm. 132° (B. 37, 881 C. 1904 [1] 1143).
- 63) Phenoxazinderivat (d. 4-Amido-1,3-Dioxybenzol-1-Aethyläther). Sm. 280°. HCl (J. pr. [2] 70, 329 C. 1904 [2] 1541).
- 64) 5[oder 6]-Oxy-2[oder 3]-Methylazobenzol-2'-Carbonsäure (D. R. P. 151279 C. 1904 [1] 1430).
- 65) 2-Oxymethylazobenzol-2'-Carbonsäure? Sm. 195° (C. r. 136, 372 C. 1903 [1] 635).
- 66) Monobenzoat d. 1,4-Dioximido-2-Methyl-1,4-Dihydrobenzol. Sm. 180° u. Zers. (G. 33 [1] 239 C. 1903 [1] 1409).
- 67) Verbindung (aus d. Verb. $C_{15}H_{14}O_3N_2$) (J. pr. [2] 70, 370 C. 1904 [2] 1565).
- $C_{14}H_{12}O_3N_4$ 7) 3,3-Di[Oximidomethyl]azoxybenzol. Sm. 191° (B. 36, 3471 C. 1903 [2] 1269).
- $C_{14}H_{12}O_5S$ 4) 4'-Oxy-4-Methyldisulfid-3'-Carbonsäure? Sm. 162—164° (D. R. P. 147634 C. 1904 [1] 131).
- $C_{14}H_{12}O_4N_2$ *22) 3-Nitro-4-[2-Methylphenyl]amidobenzol-1-Carbonsäure. Sm. 212° (A. 332, 84 C. 1904 [1] 1569).
- *26) 6,6'-Diamidobiphenyl-2,2'-Dicarbonsäure (B. 36, 3747 C. 1904 [1] 38).
- *28) 4,4'-Diamidobiphenyl-3,3'-Dicarbonsäure (C. 1903 [1] 34).
- 61) 4,4'-Dinitro-3,3'-Dimethylbiphenyl. Sm. 228° (B. 37, 1401 C. 1904 [1] 1443).
- 62) 2'-Methyläther d. 5-Nitro-2-[4-Oxybenzyliden]amido-1-Oxybenzol. Sm. 160—161° (B. 36, 4124 C. 1904 [1] 273).
- 63) 1,4-Di[Succinylamido]benzol (A. 327, 25 C. 1903 [1] 1336).
- 64) γ -Keto- α -Oxy- α -[2-Nitrophenyl]- γ -[2-Pyridyl]propan. Sm. 106° (B. 35, 4063 C. 1903 [1] 91).
- 65) 4,2'-Diamidobiphenyl-2,4'-Dicarbonsäure (D. R. P. 69541). — *II, 1092.
- 66) 2-[2-Nitrobenzyl]amidobenzol-1-Carbonsäure. Sm. 205—206° (B. 37, 594 C. 1904 [1] 881).
- 67) 2-[4-Nitrobenzyl]amidobenzol-1-Carbonsäure. Sm. 208—210° (B. 37, 594 C. 1904 [1] 881).
- 68) 4,6-Dioxy-2-Methylazobenzol-3-Carbonsäure (Benzolazoorsellinsäure). Zers. bei 191° (B. 37, 1423 C. 1904 [1] 1418).
- 69) 4,6-Dioxy-2-Methylazobenzol-5-Carbonsäure (Benzolazoparaorsellinsäure). Zers. bei 190° (B. 37, 1424 C. 1904 [1] 1418).
- 70) Acetylderivat d. Verb. $C_{12}H_{10}O_3N_2$. Zers. bei 264° (R. 21, 154 C. 1904 [2] 194).
- 71) 2-Phenylamidoformiat d. 2-Oximido-5-Oxy-1-Keto-1,2-Dihydrobenzol-5-Methyläther. Sm. 168° (J. pr. [2] 70, 338 C. 1904 [2] 1542).
- $C_{14}H_{12}O_4N_4$ *21) α -Phenylhydrazon- α -[3,5-Dinitrophenyl]äthan. Sm. 212° (J. pr. [2] 69, 469 C. 1904 [2] 596).
- 26) α -Nitro- α -[4-Nitrophenyl]azo- α -Phenyläthan. Sm. 118,5—119° (B. 36, 708 C. 1903 [1] 818).
- 27) Phenylhydrazid d. 2-Nitrophenyloxaminsäure. Sm. 181° u. Zers. (Soc. 81, 1568 C. 1903 [1] 157).
- 28) Phenylhydrazid d. 3-Nitrophenyloxaminsäure. Sm. 184° (Soc. 81, 1569 C. 1903 [1] 157).
- 29) Phenylhydrazid d. 4-Nitrophenyloxaminsäure. Sm. 217° u. Zers. (Soc. 81, 1570 C. 1903 [1] 158).
- $C_{14}H_{12}O_4N_6$ 4) 4-Nitro-6-Nitroso-5-Methylnitrosamido-2-Methylazobenzol. Sm. 174° u. Zers. (J. pr. [2] 67, 529 C. 1903 [2] 239).
- $C_{14}H_{12}O_4S_4$ 1) 4-Methyl-1,3-Phenyleneester d. 1-Methylbenzol-2,4-Di[Thiolsulfonsäure] (J. pr. [2] 68, 334 C. 1903 [2] 1172).
- $C_{14}H_{12}O_5N_4$ 11) 2,2'-Dinitro-4-Oxy-2,3'-Dimethylazobenzol. Sm. 147—150° (B. 37, 2582 C. 1904 [2] 659).

- $C_{14}H_{12}O_5S$ 4) 4-[4-Methylbenzol]sulfonat d. 3,4-Dioxybenzol-1-Carbonsäure-aldehyd. Sm. 118° (D.R.P. 76493). — *III, 76.
- $C_{14}H_{12}O_6N_4$ 5) 2,4,6-Trinitro-3,4-Dimethyldiphenylamin. Sm. 127° (B. 37, 2095 C. 1904 [2] 34).
- 6) 4-Methyläther d. 2,6-Dinitro-3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 185° (B. 35, 4394 C. 1903 [1] 340).
- $C_{14}H_{12}O_6N_6$ 2) 4,6-Dinitro-5-Methylnitrosamido-2-Methyldiphenylnitrosamin. Zers. bei 100° (J. pr. [2] 67, 562 C. 1903 [2] 241).
- $C_{14}H_{12}O_7N_4$ C 48,3 — H 3,4 — O 32,2 — N 16,1 — M. G. 348.
- 1) Äthyläther d. 2,4,6-Trinitro-3-Oxydiphenylamin. Sm. 174° (R. 21, 326 C. 1903 [1] 80).
- $C_{14}H_{12}O_7N_6$ C 44,7 — H 3,2 — O 29,8 — N 22,3 — M. G. 376.
- 1) 4,6-Dinitro-5-Methylnitramido-2-Methyldiphenylnitrosamin. Sm. 141° u. Zers. (J. pr. [2] 67, 563 C. 1903 [2] 241).
- $C_{14}H_{12}O_9N_6$ *1) ?-Tetranitro-4-Dimethylamido-4-Oxydiphenylamin. Sm. 228° u. Zers. (J. pr. [2] 69, 166 C. 1904 [1] 1268).
- $C_{14}H_{12}NCl$ *3) α -Chlor- α -Benzylimido- α -Phenylmethan. Sd. 110°₅₀ (B. 36, 19 C. 1903 [1] 510; Soc. 83, 326 C. 1903 [1] 581, 876).
- $C_{14}H_{12}NJ$ 5) Jodmethylat d. Akridin (B. 37, 576 C. 1904 [1] 897).
- $C_{14}H_{12}N_2S_2$ *3) Di[Phenylamid] d. Dithiooxalsäure. Sm. 134° (B. 37, 3722 C. 1904 [2] 1450).
- $C_{14}H_{12}N_3Cl$ 1) 3-Chlor-4,6-Dimethyl-2-Phenyl-2,1,5-Benztriazol. Sm. 179—180° (B. 36, 521 C. 1903 [1] 649).
- $C_{14}H_{12}N_4S$ 4) 2,5-Di[3-Amidophenyl]-1,3,4-Thiodiazol. Sm. 239—240°. 2 HCl (B. 35, 3935 C. 1903 [1] 38).
- 5) 3-Merkapto-1,6-Diphenyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 208° (J. pr. [2] 67, 233 C. 1903 [1] 1262).
- $C_{14}H_{13}ON$ *4) 4-Benzylidenamido-1-Methylbenzol. Sm. 29°; Sd. 178°₁₁ (Soc. 85, 1174 C. 1904 [2] 1215).
- *7) Methyläther d. 4-Oxy-1-Phenylimidomethylbenzol. Sm. 63°. HJ (B. 36, 1539 C. 1903 [2] 53).
- *11) 2-Amidophenyl-4-Methylphenylketon. Sm. 95° (B. 35, 4277 C. 1903 [1] 333).
- *18) α -Oximido- $\alpha\beta$ -Diphenyläthan. Sm. 96° (B. 36, 1497 C. 1903 [1] 1351).
- *33) 3-Acetylamidoacenaphten. Sm. 186° (A. 327, 82 C. 1903 [1] 1227).
- *43) Phenylamid d. 1-Methylbenzol-2-Carbonsäure. Sm. 125° (B. 36, 1012 C. 1903 [1] 1078).
- *45) Methylphenylamid d. Benzolcarbonsäure. Sd. 331—332° (B. 37, 2681 C. 1904 [2] 521; B. 37, 2815 C. 1904 [2] 648).
- *49) Benzylamid d. Benzolcarbonsäure. Sm. 104—105° (108°) (C. r. 135, 974 C. 1903 [1] 232; B. 36, 2289 C. 1903 [2] 564).
- *55) 6-Amido-3-Methyldiphenylketon. Sm. 66°. HCl (Soc. 85, 595 C. 1904 [1] 1554).
- 69) Methyläther d. 2-Oxy-1-Phenylimidomethylbenzol (M. d. Phenyl-2-Oxybenzylidenamin). Sd. 235—236°₅₀ (B. 36, 1537 C. 1903 [2] 53).
- 70) Methyläther d. 3-Oxy-1-Phenylimidomethylbenzol. Sd. 223—225°₁₈ (B. 36, 1538 C. 1903 [2] 53).
- 71) 4-Amido-3-Methyldiphenylketon. Sm. 112°. HCl, H₂SO₄ (Soc. 85, 592 C. 1904 [1] 1554).
- 72) 2-Methylamidodiphenylketon. Sm. 66° (B. 35, 4276 C. 1903 [1] 333).
- 73) 3-Acetylamidobiphenyl. Sm. 148° (B. 37, 883 C. 1904 [1] 1143).
- 74) 1-Oxy-2-[2-Pyridyl]-2,3-Dihydroinden. Sd. 140—160°₁₀. HCl, (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), HNO₃ (B. 36, 1655 C. 1903 [2] 39).
- 75) Methylhydroxyd d. Akridin. Jodid, Pikrat (B. 37, 576 C. 1904 [1] 897).
- 76) Base (aus Isopyrophtalon). Fl. (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃) (B. 36, 1660 C. 1903 [2] 40).
- $C_{14}H_{13}ON_3$ *11) 5-Acetylamido-2-Methyl- α -oder- β -Naphtimidazol. Sm. 288—290° (Soc. 83, 1186 C. 1903 [2] 1444).
- 25) α -Benzylidenamido- α -Phenylharnstoff. Sm. 154° (B. 36, 1358 C. 1903 [1] 1340).
- 26) Diphenylmethylenamidoharnstoff (Benzophenonsemicarbazon). Sm. 164—165° (B. 37, 3180 C. 1904 [2] 991).

- $C_{11}H_{13}ON_3$ 27) 3-Keto-4,6-Dimethyl-2-Phenyl-2,3-Dihydro-1,2,5-Benzotriazol. Sm. 233—234° (*B.* 36, 518 *C.* 1903 [1] 649).
- 28) Phenylamid d. 2-Methyldiazobenzol-N-Carbonsäure. Sm. 132—133° (*B.* 36, 1372 *C.* 1903 [1] 1343).
- 29) Phenylamid d. 4-Methyldiazobenzol-N-Carbonsäure. Sm. 129° u. Zers. (*B.* 36, 1376 *C.* 1903 [1] 1344).
- 30) Benzylidenhydrazid d. 2-Amidobenzol-1-Carbonsäure. Sm. 195° (*J. pr.* [2] 69, 97 *C.* 1904 [1] 729).
- $C_{14}H_{13}O_2N$ *38) α -Phenylamido- α -Phenylelessigsäure. Sm. 173—175° (*B.* 37, 4084 *C.* 1904 [2] 1723).
- *39) 2-Benzylamidobenzol-1-Carbonsäure. Sm. 174—176° (*B.* 37, 593 *C.* 1904 [1] 881).
- *41) 2-[2-Methylphenyl]amidobenzol-1-Carbonsäure. Sm. 185° (188 bis 189°) (*B.* 36, 2384 *C.* 1903 [2] 664; D.R.P. 145189 *C.* 1903 [2] 1097).
- *42) 2-[4-Methylphenyl]amidobenzol-1-Carbonsäure. Sm. 191—192° (D.R.P. 145189 *C.* 1903 [2] 1097).
- *49) Aethylester d. δ -Cyan- α -Phenyl- α - γ -Butadien- δ -Carbonsäure. Sm. 115—116° (*C.* 1903 [2] 714).
- *55) 2-Amidobenzylester d. Benzolcarbonsäure. HCl (*B.* 37, 2260 *C.* 1904 [2] 212).
- 83) 4-Methoxyphenyl-2-Oxybenzylidenamin. Sm. 86° (*A.* 325, 248 *C.* 1903 [1] 632).
- 84) Methyläther d. 2-Amido-4'-Oxydiphenylketon. Sm. 76° (*B.* 35, 4278 *C.* 1903 [1] 333).
- 85) 2-Benzoylamido-1-Oxymethylbenzol. Sm. 132—133° (*B.* 37, 2261 *C.* 1904 [2] 212).
- 86) 3-Benzoylamido-1-Oxymethylbenzol. Sm. 115° (*B.* 37, 3941 *C.* 1904 [2] 1597).
- 87) 3-[α -Oximidoäthyl]acenaphten. Sm. 165° (*A.* 327, 93 *C.* 1903 [1] 1228).
- 88) Methyläther d. 3-[4-Oxyphenyl]-5-Phenylisoxazol. Sm. 128—129° (*C. r.* 137, 797 *C.* 1904 [1] 43).
- 89) 4-[β -Phenyläthyl]pyridin-3-Carbonsäure. Sm. 156—157°. Ag (*B.* 37, 2146 *C.* 1904 [2] 235).
- 90) α -Phenyl- β -[2-Pyridyl]äthan- α^2 -Carbonsäure. HCl (*B.* 36, 3917 *C.* 1904 [1] 97).
- 91) Methylster d. Diphenylamin-2-Carbonsäure. Sd. 216,5—217,5° (*B.* 37, 3201 *C.* 1904 [2] 1472).
- 92) Imid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure. Sm. 137° (*B.* 36, 1002 *C.* 1903 [1] 1132).
- $C_{14}H_{13}O_2N_3$ *24) Phenylhydrazid d. Phenylloxaminsäure. Sm. 228° u. Zers. (*Soc.* 81, 1567 *C.* 1903 [1] 157).
- *30) α -Methyl- α -Phenyl- β -[3-Nitrobenzyliden]hydrazin. Sm. 112—113° (*B.* 36, 373 *C.* 1903 [1] 577).
- 47) α -Benzoylamido- β -Phenylharnstoff. Sm. 210° (*B.* 37, 2330 *C.* 1904 [2] 313).
- 48) α -Formylphenylamido- β -Phenylharnstoff. Sm. 170° u. Zers. (*J. pr.* [2] 67, 263 *C.* 1903 [1] 1266).
- 49) Phenyl-2-Nitro-3-Methylbenzylidenhydrazin. Sm. 141—142° (*C.* 1900 [2] 751). — *III, 40.
- 50) Phenyl-6-Nitro-3-Methylbenzylidenhydrazin. Sm. 131—132° (*C.* 1900 [2] 751). — *III, 40.
- 51) 4-Nitrophenyl-4-Methylbenzylidenhydrazin. Sm. 198° (*R.* 22, 439 *C.* 1904 [1] 15).
- 52) α -Phenylhydrazon- β -Nitro- α -Phenyläthan. Sm. 105—105,5° (*A.* 325, 12 *C.* 1903 [1] 287).
- 53) α -Nitro- α -Phenylazo- α -Phenyläthan. Fl. (*B.* 36, 708 *C.* 1903 [1] 818).
- 54) 4-Methyläther d. α -Oximido- α -Phenylazo- α -[4-Oxyphenyl]methan (Phenylazoanisaldoxim). Sm. 147° (*B.* 36, 66 *C.* 1903 [1] 451).
- 55) 4-Methyläther d. α -Phenylhydrazon- α -[4-Oxyphenyl]nitroso-methan. Zers. bei 69,5° (*B.* 36, 68 *C.* 1903 [1] 452).
- 56) 4'-Nitro-3,4-Dimethylazobenzol. Sm. 135,5° (*B.* 36, 1627 *C.* 1903 [2] 31).
- 57) α - β -Diphenylguanidin-2-Carbonsäure. Sm. 248° (*C.* 1903 [2] 831).

- $C_{11}H_{13}O_2N_3$ 58) Methylester d. Phenylazobenzylidennitronsäure. Sm. 92° (B. 36, 90 C. 1903 [1] 453).
- 59) Phenylamid d. 4-Oxy-3-Methylphenylazoameisensäure. Sm. 198—199° u. Zers. (A. 334, 190 C. 1904 [2] 835).
- $C_{14}H_{13}O_3N$ 34) 4-Nitrobenzyläther d. 4-Oxy-1-Methylbenzol. Sm. 91° (A. 224, 144). — II, 1060.
- 35) 4-Oxyphenylimid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure. Sm. 178° (B. 36, 1002 C. 1903 [1] 1132).
- $C_{14}H_{13}O_3N_3$ * 8) 4-Nitro-2-Acetylamidodiphenylamin. Sm. 164° (J. pr. [2] 69, 41 C. 1904 [1] 521).
- * 31) Methyläther d. α -Phenylhydrazon- α -[4-Oxyphenyl]nitromethan. Sm. 113,5—114° (B. 36, 71 C. 1903 [1] 452).
- 35) α -Phenyl- β -[5-Nitro-2-Oxy-3-Methylbenzyliden]hydrazin + H_2O . Sm. 206—207° (wasserfrei) (B. 37, 3917 C. 1904 [2] 1594).
- 36) α -Phenyl- β -[5-Nitro-4-Oxy-3-Methylbenzyliden]hydrazin. Sm. 153—155° (B. 37, 3927 C. 1904 [2] 1595).
- 37) α -Phenyl- β -[5-Nitro-6-Oxy-3-Methylbenzyliden]hydrazin. Sm. 164—166° (B. 37, 3923 C. 1904 [2] 1594).
- 38) Methyläther d. β -[4-Oxybenzoyl]- α -Nitroso- α -Phenylhydrazin. Sm. 123° (B. 36, 367 C. 1903 [1] 577).
- $C_{14}H_{13}O_4N$ 23) Aethylester d. α -Cyan- β -Acetoxyl- β -Phenylakrylsäure. Fl. (Bl. [3] 31, 337 C. 1904 [1] 1135).
- 24) 2-Methylphenylamid d. 3,4,5-Trioxylbenzol-1-Carbonsäure. BiOH (Bl. [3] 29, 533 C. 1903 [2] 244).
- $C_{14}H_{13}O_4N_3$ 14) Aethyl-2,4-Dinitrodiphenylamin. Sm. 97,5° (C. 1904 [1] 1570).
- 15) Methyl-2,4'-Dinitro-2-Methyldiphenylamin. Sm. 155° (J. pr. [2] 68, 258 C. 1903 [2] 1064).
- 16) 4-Methyläther d. 2-Nitro-3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 157—158° (B. 35, 4396 C. 1903 [1] 340).
- 17) 4-Methyläther d. 5-Nitro-3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 170° (B. 35, 4398 C. 1903 [1] 341).
- 18) 4-Methyläther d. 6-Nitro-3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 200—201° (B. 35, 4396 C. 1903 [1] 340).
- $C_{14}H_{13}O_4N_5$ * 1) 5,5'-Dinitro-2,2'-Dimethyldiazoamidobenzol. Sm. 200—201° (B. 37, 2579 C. 1904 [2] 659).
- 8) 4,4'-Dinitro-2,2'-Dimethyldiazoamidobenzol. Sm. 237° (Bl. [3] 31, 641 C. 1904 [2] 96).
- 9) 6,6'-Dinitro-2,2'-Dimethyldiazoamidobenzol. Sm. 191° (B. 37, 2583 C. 1904 [2] 659).
- $C_{14}H_{13}O_5N_3$ 4) Methyläther d. 4,6-Dinitro-4'-Oxy-3-Methyldiphenylamin. Sm. 139° (B. 37, 2094 C. 1904 [2] 34).
- 5) Aethyläther d. 4,6-Dinitro-3-Oxydiphenylamin. Sm. 170° (R. 23, 123 C. 1904 [2] 206).
- $C_{14}H_{13}O_5N_5$ 2) 4,6-Dinitro-5-Methylnitrosamido-2-Methyldiphenylamin. Sm. 122° (J. pr. [2] 67, 563 C. 1903 [2] 241).
- $C_{14}H_{13}O_5P$ 1) Benzoylverbindung d. α -Oxybenzylphosphinsäure. Sm. 93° (C. r. 135, 1120 C. 1903 [1] 285).
- $C_{14}H_{13}O_6N$ C 57,7 — H 4,5 — O 33,0 — N 4,8 — M. G. 291.
- 1) Aethylester d. 4,5-Diketo-2-[3,4-Dioxyphenylmethylenäther]tetrahydropyrrol-3-Carbonsäure. Zers. bei 155°. NH_4 (C. r. 138, 979 C. 1904 [1] 1415).
- 2) 1,6-Diacetat d. 4,5,6-Trioxyl-2-Aethenyl-1-Oximidomethylbenzol-4,5-Methylenäther. Sm. 100—101° (B. 36, 1534 C. 1903 [2] 52).
- $C_{14}H_{13}O_6N_5$ 4) 4,6-Dinitro-5-Methylnitramido-2-Methyldiphenylamin. Sm. 134° (J. pr. [2] 67, 523 C. 1903 [2] 233).
- $C_{14}H_{13}NS$ 11) Phenyläther d. β -Imido- β -Merkapto- α -Phenyläthan. HCl (B. 36, 3466 C. 1903 [2] 1243).
- 12) Phenylamid d. Phenylthioessigsäure. Sm. 87° (B. 37, 875 C. 1904 [1] 1004).
- $C_{14}H_{13}NS_2$ 2) Phenylbenzylamidodithioameisensäure. NH_4 (J. pr. [2] 67, 287 C. 1903 [1] 1306).
- $C_{14}H_{13}N_2Br$ 6) α -[3-Bromphenyl]hydrazon- α -Phenyläthan. Sm. 112—113° (113—115°) (Am. 21, 30; B. 36, 756 C. 1903 [1] 833).

- $C_{14}H_{13}N_2J$ *2) Jodmethylat d. 2-Phenylindazol. Sm. 211° u. Zers. (188°?) (*Bl.* [3] 29, 746 *C.* 1903 [2] 629).
- 7) 4'-Jod-2,3'-Dimethylazobenzol. Sm. 64° (*J. pr.* [2] 69, 322 *C.* 1904 [2] 35).
- $C_{14}H_{13}ClJ_2$ 3) β -Dijoddi[3-Methylphenyl]jodoniumchlorid. Sm. 160°. 2 + $PtCl_4$ (*A.* 327, 283 *C.* 1903 [2] 351).
- $C_{14}H_{13}BrJ_2$ 3) β -Joddi[3-Methylphenyl]jodoniumbromid. Sm. 154° (*A.* 327, 283 *C.* 1903 [2] 351).
- $C_{14}H_{14}ON_2$ *5) s-Phenyl-4-Methylphenylharnstoff. Sm. 212° (*B.* 36, 1374 *C.* 1903 [1] 1343).
- *20) Phenolblau. Sm. 160° (*J. pr.* [2] 69, 162 *C.* 1904 [1] 1268).
- *39) 2,2'-Dimethylazoxybenzol. Sm. 59—60° (*C.* 1904 [2] 1383).
- *41) 4,4'-Dimethylazoxybenzol. Sm. 75° (*C.* 1904 [2] 1383).
- *62) Amid d. α -Phenylamido- α -Phenylelessigsäure. Sm. 122—123° (*B.* 37, 4084 *C.* 1904 [2] 1723).
- 89) α -Keto- $\alpha\beta$ -Di[4-Amidophenyl]äthan. Sm. 145°. 2HCl (D.R.P. 45371; *A.* 325, 74 *C.* 1903 [1] 463). — *III, 163.
- 90) α -Phenylnitrosamidoäthylbenzol. Fl. (*B.* 37, 2692 *C.* 1904 [2] 519).
- 91) 3-Oxy-2-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 136° (*B.* 35, 4104 *C.* 1903 [1] 149).
- 92) isom. 3-Oxy-2-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 168° (*B.* 35, 4104 *C.* 1903 [1] 149).
- 93) 5-Oxy-2-Phenylhydrazon-1-Methylbenzol. Sm. 88° u. Zers. (*B.* 35, 4105 *C.* 1903 [1] 149).
- 94) 2-Oxy-3-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 97° (*B.* 35, 4104 *C.* 1903 [1] 149).
- 95) 4-Oxy-3-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 149° (*B.* 35, 4104 *C.* 1903 [1] 149).
- 96) 6-Oxy-3-Phenylhydrazonmethyl-1-Methylbenzol. Zers. bei 147° (*B.* 35, 4105 *C.* 1903 [1] 149).
- 97) 2-Oxymethyl-4'-Methylazobenzol. Sm. 93° (*C. r.* 138, 1276 *C.* 1904 [2] 120; *Bl.* [3] 31, 868 *C.* 1904 [2] 661).
- 98) Äthyläther d. 2-Oxyazobenzol. Sm. 43—44°. (2HCl, $PtCl_4$) (*B.* 36, 4071 *C.* 1904 [1] 267; *B.* 36, 4108 *C.* 1904 [1] 272).
- 99) Äthyläther d. 3-Oxyazobenzol. Sm. 63,5—64°; Sd. 200°₂₂ (*B.* 36, 4099 *C.* 1904 [1] 271).
- 100) Verbindung (aus o-Nitrobenzacet). (2HCl, $PtCl_4$) (*Bl.* [3] 31, 452 *C.* 1904 [1] 1498).
- $C_{14}H_{14}OJ_2$ 3) β -Joddi[3-Methylphenyl]jodoniumhydrat. Salze siehe (*A.* 327, 283 *C.* 1903 [2] 351).
- $C_{14}H_{14}OS$ *1) Dibenzylsulfoxyd. Sm. 133° (*B.* 36, 543 *C.* 1903 [1] 707).
- $C_{14}H_{14}O_2N_2$ *48) 3-Amido-4-[2-Methylphenyl]amidobenzol-1-Carbonsäure. Sm. 169° (*A.* 332, 85 *C.* 1904 [1] 1569).
- *49) 3-Amido-4-[4-Methylphenyl]amidobenzol-1-Carbonsäure. Sm. 183° (*A.* 332, 88 *C.* 1904 [1] 1569).
- *77) Benzyl-5-Nitro-2-Methylphenylamin. Sm. 124° (D.R.P. 141297 *C.* 1903 [1] 1163).
- 82) β -Nitro- α -Phenylamido- α -Phenyläthan. HCl (*B.* 20, 2986; 29, 360; *B.* 36, 2564 *C.* 1903 [2] 494). — *II, 86.
- 83) Dimethyläther d. 4,4'-Dioxyazobenzol. Sm. 160—162°; Sd. oberh. 315° (*B.* 36, 3162 *C.* 1903 [2] 947; *B.* 36, 3876 *C.* 1904 [1] 23).
- 84) Diamidomethylbiphenylcarbonsäure. Sm. 183° (D.R.P. 145063 *C.* 1903 [2] 973).
- 85) 2-Methyl-s-Diphenylhydrazin-2'-Carbonsäure. Sm. 136° (D.R.P. 145063 *C.* 1903 [2] 973).
- $C_{14}H_{14}O_2N_4$ 21) β -[2-Methylphenyl]nitrosamido- α -Phenylharnstoff. Sm. 116° (*B.* 36, 1371 *C.* 1903 [1] 1343).
- 22) α -Ureido- $\alpha\beta$ -Diphenylharnstoff. Sm. 210° u. Zers. (*C.* 1904 [2] 1028).
- 23) 2-Methylamido-1-[4-Nitrophenylhydrazon]methylbenzol. Sm. 245 bis 246° (*B.* 37, 984 *C.* 1904 [1] 1079).
- 24) 4'-Nitro-3-Methylamido-4-Methylazobenzol? Sm. 193—194° (*C.* 1903 [1] 400).
- 25) Dimethyläther d. 3,8-Diamido-2,9-Dioxydiphenazon. Sm. 244°. 2HCl (*B.* 37, 35 *C.* 1904 [1] 524).

- $C_{14}H_{14}O_2N_6$ C 56,4 — H 4,5 — O 10,7 — N 28,2 — M. G. 298.
 1) 4- $[\beta$ -Phenylsemicarbazon]-1-Semicarbazon-1,4-Dihydrobenzol. Zers. bei 242° (A. 334, 171 C. 1904 [2] 834).
- $C_{14}H_{14}O_2Br_2$ 2) Aethylester d. Dibrombenznorcarenocarbonsäure. Sm. $95-96^\circ$ (B. 36, 3505 C. 1903 [2] 1273).
- $C_{14}H_{14}O_2S$ *5) Dibenzylsulfon. Sm. 150° (B. 36, 545 C. 1903 [1] 707).
 11) 4-Benzyläther d. 4-Merkapto-2,5-Dioxy-1-Methylbenzol. Sm. 113 bis $114,5^\circ$ (A. 336, 164 C. 1904 [2] 1300).
 12) Verbindung (aus Merkaptomethylbenzol u. 2-Methyl-1,4-Benzochinon). Sm. $101-103,5^\circ$ (A. 336, 162 C. 1904 [2] 1300).
- $C_{14}H_{14}O_3N_2$ *10) Dimethyläther d. 2,2'-Dioxyazoxybenzol. Sm. 81° (J. pr. [2] 67, 150 C. 1903 [1] 870).
 *11) Dimethyläther d. 4,4'-Dioxyazoxybenzol. Sm. $144-146^\circ$ ($118,5^\circ$) (B. 36, 3159 C. 1903 [2] 947; B. 36, 3874 C. 1904 [1] 23; B. 37, 45 C. 1904 [1] 654; B. 37, 3421 C. 1904 [2] 1294).
 34) 4-Methoxyphenyl-2-Oxybenzylnitrosamin. Sm. 91° (A. 325, 249 C. 1903 [1] 632).
 35) 2,2'-Di[Oxymethyl]azoxybenzol. Sm. 123° (B. 36, 837 C. 1903 [1] 1028).
 36) α -Oxy- α -(3-Nitrophenyl)- β -(6-Methyl-2-Pyridyl)äthan + H_2O . Sm. $82-83^\circ$ (96° wasserfrei). HCl, (HCl, $HgCl_2$), (2HCl, $PtCl_4$), Pikrat (B. 36, 1686 C. 1903 [2] 47).
 37) Aethylester d. 5-Acetyl-4-Phenylpyrazol-3-Carbonsäure. Sm. 113° (A. 325, 184 C. 1903 [1] 646).
 38) Aethylester d. 5-Benzoyl-4-Methylpyrazol-3-Carbonsäure. Sm. $119-120^\circ$ (A. 325, 187 C. 1903 [1] 647).
 39) Aethylester d. 3-Keto-4-Methyl-2-Phenyl-2,3-Dihydro-1,2-Diazin-6-Carbonsäure. Sm. 125° (R. 22, 284 C. 1903 [2] 108).
- $C_{14}H_{14}O_3N_4$ 6) Methyläther d. 2-Phenyl-1,2,3,4-Tetrazin-6-Dimethylmalonsäure. Sm. $88-89^\circ$ (Soc. 83, 1254 C. 1903 [2] 1422).
- $C_{14}H_{14}O_4N_2$ 9) Aethylester d. 5-[4-Acetylamidophenyl]isoxazol-3-Carbonsäure (B. 36, 2697 C. 1903 [2] 952).
- $C_{14}H_{14}O_4N_4$ 15) 4,6-Dinitro-5-Methylamido-2-Methyldiphenylamin. Sm. 197° (J. pr. [2] 67, 536 C. 1903 [2] 239).
- $C_{14}H_{14}O_4Br_2$ 1) Dimethylester d. $\gamma\delta$ -Dibrom- δ -Phenyl- α -Buten- $\alpha\alpha$ -Dicarbonsäure. Sm. 93° (B. 37, 1125 C. 1904 [1] 1210; A. 336, 223 C. 1904 [2] 1733).
- $C_{14}H_{14}O_4Br_4$ 2) Dimethylester d. $\alpha\beta\gamma\delta$ -Tetrabrom- α -Phenylbutan- $\delta\delta$ -Dicarbonsäure. Sm. 135° (A. 336, 225 C. 1904 [2] 1733).
- $C_{14}H_{14}O_4S_2$ 4) α -Phenylsulfon- α -Benzylsulfonmethan. Sm. $145-147^\circ$ (B. 36, 300 C. 1903 [1] 500).
- $C_{14}H_{14}O_6N_4$ *1) Dimethyläther d. 6,6'-Dinitro-4,4'-Diamido-3,3'-Dioxybiphenyl. Sm. 222° (B. 37, 35 C. 1904 [1] 524).
 *2) Dimethylamidobenzol + 1,3,5-Trinitrobenzol. Sm. $108-109^\circ$ (Soc. 83, 1341 C. 1904 [1] 100).
 5) Aethylamidobenzol + 1,3,5-Trinitrobenzol. Sm. $55-56^\circ$ (Soc. 83, 1342 C. 1904 [1] 100).
 6) Difurfurylidenhydrazid d. d-Weinsäure. Sm. 204° (Soc. 83, 1364 C. 1904 [1] 85).
- $C_{14}H_{14}O_6S_3$ 1) Dimethylester d. Diphenylsulfid-4,4'-Disulfonsäure. Sm. 97° (118°) (R. 22, 358 C. 1904 [1] 23).
- $C_{14}H_{14}N_2S$ *4) s-Phenyl-2-Methylphenylthioharnstoff. Sm. 139° (140°) (B. 36, 1141 C. 1903 [1] 1220; B. 36, 3848 C. 1904 [1] 89).
 14) isom. s-Phenyl-2-Methylphenylthioharnstoff. Sm. $166-168^\circ$ (B. 37, 159 C. 1904 [1] 582).
 15) isom. s-Phenyl-4-Methylphenylthioharnstoff. Sm. $176-178^\circ$ (B. 37, 159 C. 1904 [1] 582).
- $C_{14}H_{14}N_4S_2$ 6) 2,4'-Biphenylendithioharnstoff (2,4'-Dithioureidobiphenyl). Sm. 201° (B. 36, 4092 C. 1904 [1] 269).
- $C_{14}H_{14}ClJ$ 3) 4-Aethyldiphenyljodoniumchlorid. Sm. 169° . 2 + $HgCl_2$, 2 + $PtCl_4$ (A. 327, 292 C. 1903 [2] 352).
 4) Di[3-Methylphenyl]jodoniumchlorid. Sm. 206° . + $HgCl_2$, + $PtCl_4$ (A. 327, 273 C. 1903 [2] 350).
 5) 2,3'-Dimethyldiphenyljodoniumchlorid. Sm. $183-185^\circ$. + $HgCl_2$, 2 + $PtCl_4$ (A. 327, 278 C. 1903 [2] 350).

- C₁₄H₁₄ClJ** 6) 3,4'-Dimethyldiphenyljodoniumchlorid. Sm. 186°. 2 + PtCl₄ + 2H₂O (A. 327, 280 C. 1903 [2] 351).
- C₁₄H₁₄BrJ** 3) 4-Aethyldiphenyljodoniumbromid. Sm. 127° (A. 327, 292 C. 1903 [2] 352).
- 4) Di[3-Methylphenyl]jodoniumbromid. Sm. 146° (A. 327, 274 C. 1903 [2] 350).
- 5) 2,3'-Dimethyldiphenyljodoniumbromid. Sm. 172° (A. 327, 278 C. 1903 [2] 350).
- 6) 3,4'-Dimethyldiphenyljodoniumbromid. Sm. 184° (A. 327, 280 C. 1903 [2] 351).
- C₁₄H₁₆ON** 24) Methylphenyl-2-Oxybenzylamin. Fl. (Ar. 240, 690 C. 1903 [1] 395).
- C₁₄H₁₆ON₃** 28) Diphenylmethyramidoharnstoff (Benzhydrylsemicarbazid). Sm. 150 bis 160° (J. pr. [2] 67, 171 C. 1903 [1] 873).
- 29) α-Amido-β-Phenyl-α-Benzylharnstoff. Sm. 109—110° (B. 37, 2326 C. 1904 [2] 312).
- 30) α-Amido-β-Phenyl-α-[2-Methylphenyl]harnstoff. Sm. 136° (B. 36, 1369 C. 1903 [1] 1342).
- 31) α-Amido-α-[3-Methylphenyl]-β-Phenylharnstoff. Sm. 112° (B. 36, 1373 C. 1903 [1] 1343).
- 32) α-Amido-α-[4-Methylphenyl]-β-Phenylharnstoff. Sm. 184—185°. HCl (B. 36, 1374 C. 1903 [1] 1343).
- 33) β-[2-Methylphenyl]amido-α-Phenylharnstoff. Sm. 142° (B. 36, 1371 C. 1903 [1] 1343).
- 34) β-[3-Methylphenyl]amido-α-Phenylharnstoff. Sm. 159° (B. 36, 1373 C. 1903 [1] 1343).
- 35) β-[4-Methylphenyl]amido-α-Phenylharnstoff. Sm. 171° (B. 36, 1375 C. 1903 [1] 1343).
- 36) Aethyläther d. 4-Amido-3-Oxazobenzol. Sm. 109—110,5° (B. 36, 4097 C. 1904 [1] 270).
- C₁₄H₁₆OJ** 3) 4-Aethyldiphenyljodoniumhydrat. Salze siehe (A. 327, 292 C. 1903 [2] 352).
- 4) Di[3-Methylphenyl]jodoniumhydrat. Salze siehe (A. 327, 273 C. 1903 [2] 350).
- 5) 2,3'-Dimethyldiphenyljodoniumhydrat. Salze siehe (A. 327, 278 C. 1903 [2] 351).
- 6) 3,4'-Dimethyldiphenyljodoniumhydrat. Salze siehe (A. 327, 280 C. 1903 [2] 351).
- C₁₄H₁₆O₂N** 35) 4'-Methylamido-2,4-Dioxydiphenylmethan. Sm. 111—112°. HCl (M. 23, 992 C. 1903 [1] 289).
- 36) 4-Methoxyphenyl-2-Oxybenzylamin. Sm. 127° (A. 325, 248 C. 1903 [1] 632).
- 37) 1-Methyläther d. 2-[2-Oxybenzyl]amido-1-Oxybenzol. Sm. 70—71° (Ar. 240, 689 C. 1903 [1] 395).
- 38) 1-Methyläther d. 4-[2-Oxybenzyl]amido-1-Oxybenzol. Sm. 128° (Ar. 240, 681 C. 1903 [1] 395).
- 39) 1-Benzyläther d. 5-Amido-4-Oxy-1-Oxymethylbenzol. Sm. 76—78° (D.R.P. 148977 C. 1904 [1] 699).
- 40) α-Dioxy-β-Phenyl-β-[2-Pyridyl]propan. Sm. 106—107°. (2HCl, PtCl₄), Pikrat (J. pr. [2] 69, 312 C. 1904 [1] 1613).
- 41) α-Dioxy-β-Phenyl-β-[4-Pyridyl]propan. Sm. 194°. (2HCl, PtCl₄) (J. pr. [2] 69, 316 C. 1904 [1] 1613).
- 42) Benzoat d. lab. 4-Oximido-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 142—143° (C. 1903 [1] 329; A. 329, 372 C. 1904 [1] 517).
- 43) Benzoat d. stab. 4-Oximido-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 90—91° (C. 1903 [1] 329; A. 329, 373 C. 1904 [1] 517).
- C₁₄H₁₆O₂N₃** *6) 4-Dimethylamido-3'-Oxydiphenylnitrosamin. Sm. 125—126° (J. pr. [2] 69, 237 C. 1904 [1] 1269).
- 9) Aethyl-4-Nitro-2-Amidodiphenylamin. Sm. 86,5°. H₂SO₄ (C. 1904 [1] 1570).
- 10) 4-Nitroso-4-Dimethylamido-3'-Oxydiphenylamin. Sm. 164° (J. pr. [2] 69, 238 C. 1904 [1] 1269).
- 11) 3-Methyläther d. 2-Amido-3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 165° (C. 1903 [2] 31).

- $C_{14}H_{15}O_2N_3$ 12) 4- $[\beta$ -Phenylhydrazido]-2,6-Dimethylpyridin-3-Carbonsäure. Sm. 176—177°. HCl (B. 36, 517 C. 1903 [1] 648).
- $C_{14}H_{15}O_2P$ *1) Dibenzylphosphinsäure. Sm. 190—191° (C. r. 139, 675 C. 1904 [2] 1638).
- $C_{14}H_{15}O_3N$ 17) Methyl ester d. α -Cyan- β -Oxy- β -Phenylakrylpropyläthersäure. Sm. 84° (C. r. 136, 691 C. 1903 [1] 920; Bl. [3] 31, 342 C. 1904 [1] 1135).
- 18) Phenylmonamid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure. Sm. 155° (B. 36, 999 C. 1903 [1] 1131).
- $C_{14}H_{15}O_3N_3$ 2) Aethylester d. Acetyl-4-Methylphenylhydrazoncyanessigsäure. lab. Modif. Sm. 216°; stab. Modif. Sm. 218—219° (J. pr. [2] 67, 407 C. 1903 [1] 1347).
- $C_{14}H_{15}O_4N$ *1) i- α -[1,2-Phtalyl]amidopentan- α -Carbonsäure. Sm. 141,5—142° (B. 37, 1695 C. 1904 [1] 1525).
- 13) Aethylester d. α -Cyan- β -[3,4-Dioxyphenyl]akryl-3,4-Dimethyläthersäure. Sm. 156° (C. 1904 [2] 903).
- 14) 4-Oxyphenylmonamid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure. Sm. 170—175° (B. 36, 999 C. 1903 [1] 1131). C 53,0 — H 4,7 — O 20,2 — N 22,1 — M. G. 317.
- $C_{14}H_{15}O_4N_5$ 1) 4,6-Dinitro-5-Methylamido-2-Methyl- β -Diphenylhydrazin. Sm. 155° (J. pr. [2] 67, 537 C. 1903 [2] 239).
- $C_{14}H_{15}O_4Br$ 2) Dimethylester d. γ -Brom- α -Phenyl- α -Buten- $\delta\delta$ -Dicarbonsäure. Fl. (A. 336, 200 C. 1904 [2] 1731).
- $C_{14}H_{15}O_4Br_3$ 1) Dimethylester d. $\alpha\beta\gamma$ -oder $\alpha\beta\delta$ -Tribrom- α -Phenylbutan- $\delta\delta$ -Dicarbonsäure. Sm. 126—127° (A. 336, 226 C. 1904 [2] 1733).
- $C_{14}H_{15}O_4P$ *3) Aethyldiphenylester d. Phosphorsäure (D.R.P. 142971 C. 1903 [2] 171).
- 4) Di[α -Oxybenzyl]unterphosphorige Säure. Sm. 230° (C. 1904 [2] 1709).
- $C_{14}H_{15}O_5N$ 3) Aethylester d. 4-Acetylamidobenzoylbrenztraubensäure. Sm. 80 bis 124°. Cu (B. 36, 2696 C. 1903 [2] 952).
- 4) Aethylester d. 4-Aethoxylphtalylamidoessigsäure. Sm. 118° (B. 37, 1974 C. 1904 [2] 236).
- 5) Aethylester d. 4,5-Diketo-2-[4-Methoxyphenyl]tetrahydropyrrol-3-Carbonsäure. Zers. bei 160°. NH_4 (C. r. 138, 979 C. 1904 [1] 1415).
- 6) Aethylester d. 4,6[oder 4,7]-Dioxy-1-Keto-1,2-Dihydroisochinolin-6[oder 7]-Aethyläther-3-Carbonsäure. Zers. bei 233° (B. 37, 1974 C. 1904 [2] 236).
- $C_{14}H_{15}O_5Br_3$ 3) α ,4-Diacetat d. 2,5-Dibrom-3,4-Dioxy-1- $[\beta$ -Brom- α -Oxypropyl]-benzol. Sm. 139—140° (A. 329, 27 C. 1903 [2] 1436).
- $C_{14}H_{15}O_6N$ *2) Diäthylester d. α -[3-Nitrophenyl]äthen- $\beta\beta$ -Dicarbonsäure. Sm. 75—76° (Soc. 83, 723 C. 1903 [2] 55).
- 4) 6-Methylester-4-Aethylester d. 2-Keto-3,4-Dihydro-1,4-Benzoxazin-4-Methylcarbonsäure-6-Carbonsäure. Sm. 136° (A. 325, 336 C. 1903 [1] 771).
- 5) Aethylester d. 4,5-Diketo-2-[4-Oxy-3-Methoxyphenyl]tetrahydropyrrol-3-Carbonsäure. Zers. bei 180°. NH_4 (C. r. 138, 979 C. 1904 [1] 1415).
- 6) Diacetat d. 4-Diacetylamido-1,3-Dioxybenzol. Sm. 106—108° (B. 35, 4193 C. 1903 [1] 145; B. 35, 4204 C. 1903 [1] 146; J. pr. [2] 70, 326 C. 1904 [2] 1541).
- 7) Mono[4-Aethoxyphenylamid] d. Akonitsäure + H_2O . Sm. 72° (129° wasserfrei). + $C_6H_5O_2$ (C. 1903 [2] 565).
- $C_{14}H_{15}O_8N$ 2) Triacetat d. 5-Nitro-4-Oxy-3-Dioxyethyl-1-Methylbenzol. Sm. 132 bis 132,5° (B. 37, 3926 C. 1904 [2] 1595).
- $C_{14}H_{15}NCl_2$ 1) Base (aus 2- oder 4-Methyl-1,2,3,4-Tetrahydrocarbazol). Sm. 125—126°. Pikrat (C. 1904 [2] 343).
- $C_{14}H_{15}NS$ 1) 4-Amido-2,4'-Dimethyldiphenylsulfid (J. pr. [2] 68, 289 C. 1903 [2] 995).
- 2) 4-Amido-3,4'-Dimethyldiphenylsulfid. Sm. 48—49°. HCl, (2HCl, $PtCl_4$, H_2SO_4 , Oxalat, Pikrat (J. pr. [2] 68, 279 C. 1903 [2] 994).
- $C_{14}H_{15}N_5S$ *8) α -Phenylamido- β -Benzylthioharnstoff. Sm. 162° (J. pr. [2] 67, 217 C. 1903 [1] 1260).

- $C_{14}H_{15}N_3S$ *17) α -Amido- β -Phenyl- α -Benzylthioharnstoff. Sm. 123° (B. 37, 2328 C. 1904 [2] 313).
 20) α -Benzylamido- β -Phenylthioharnstoff. Sm. 155° (B. 37, 2329 C. 1904 [2] 313).
- $C_{14}H_{16}ON_2$ *9) Äthyläther d. 4,4'-Diamido-3-Oxybiphenyl. Sm. 139° (B. 36, 4072 C. 1904 [1] 267).
 *10) Äthyläther d. 6,4'-Diamido-3-Oxybiphenyl (B. 36, 4087 C. 1904 [1] 269).
 *20) 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 99°. HCl, H_2SO_4 (J. pr. [2] 69, 232 C. 1904 [1] 1269).
 *21) 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 161° (J. pr. [2] 69, 161 C. 1904 [1] 1267).
 26) Äthyläther d. 2-Oxy-s-Diphenylhydrazin. Sm. 66° (B. 36, 4072 C. 1904 [1] 267).
 27) Äthyläther d. 3-Oxy-s-Diphenylhydrazin. Sm. 74–75° (B. 36, 4113 C. 1904 [1] 272).
 28) Äthyläther d. 4-Oxy-s-Diphenylhydrazin. Sm. 86° (B. 36, 3848 C. 1904 [1] 89).
 29) 1-Phenacetylamido-2,5-Dimethylpyrrol. Sm. 110–111°; Sd. 245 bis 265°₉₈ (B. 35, 4321 C. 1903 [1] 336).
 30) 1-Benzoyl-3-Methyl-5-Propylpyrazol (oder 1-Benzoyl-5-Methyl-3-Propylpyrazol). Fl. (Bl. [3] 27, 1087 C. 1903 [1] 226).
- $C_{14}H_{16}ON_4$ 10) Di[β -2-Pyridyläthyl]nitrosamin. Fl. (HCl, $PtCl_4$) (B. 37, 173 C. 1904 [1] 673).
- $C_{14}H_{16}O_2N_2$ 21) Äthylester d. α -Cyan- β -Äthylamido- β -Phenylakrylsäure. Sm. 90–91° (Bl. [3] 31, 343 C. 1904 [1] 1135).
 22) Acetat d. 3,3-Dimethyl-2-[α -Oximidoäthyl]pseudoindol. Sm. 149° (G. 32 [2] 431 C. 1903 [1] 838).
- $C_{14}H_{16}O_3N_2$ 16) 2,4,6-Triketo-5,5-Diäthyl-1-Phenylhexahydro-1,3-Diazin. Sm. 197° (D. R. P. 146496 C. 1903 [2] 1484; A. 335, 349 C. 1904 [2] 1381).
- $C_{14}H_{16}O_3N_4$ 4) 5-[4-Dimethylamidophenyl]imido-2,4,6-Triketo-1,3-Dimethylhexahydro-1,3-Diazin (Tetramethylureidindoanilin). Sm. 168° (A. 333, 38 C. 1904 [2] 770).
- $C_{14}H_{16}O_4N_2$ *1) Coffearin (C. 1904 [2] 837).
 12) γ -Äthylester d. α -Phenylhydrazon- β -Oxybutan- $\alpha\gamma$ -Dicarbonsäure- $\alpha\gamma$ -Lakton. Sm. 120° (R. 22, 283 C. 1903 [2] 107).
- $C_{14}H_{16}O_4N_4$ C 55,3 — H 5,3 — O 21,0 — N 18,4 — M. G. 304.
 1) Methylster d. 2-Phenylamido-1,2,3,6-Oxtriazin-5-[Isobutyryl- α -Carbonsäure]. Sm. 139° (u. 154°) (Soc. 83, 1250 C. 1903 [2] 1422).
- $C_{14}H_{16}O_5N_2$ *5) Diäthylester d. β -Phenylhydrazon- α -Ketoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 72–73° (Bl. [3] 31, 78 C. 1904 [1] 580; Bl. [3] 31, 94 C. 1904 [1] 581).
 6) Monooxim d. 4-Acetylamidobenzoylbrenztraubensäureäthylester. Sm. 177–178° (B. 36, 2697 C. 1903 [2] 952).
 7) Diäthylester d. isom. β -Phenylhydrazon- α -Ketoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 126–127° (Bl. [3] 31, 79 C. 1904 [1] 580; Bl. [3] 31, 95 C. 1904 [1] 581).
 8) Butyrat d. 5-Oxy-3-Methyl-1-Phenylpyrazol. Sd. 172°₈ (B. 36, 530 C. 1903 [1] 642).
- $C_{14}H_{16}O_5N_4$ C 52,5 — H 5,0 — O 25,0 — N 17,5 — M. G. 320.
 1) 3,6'-Dinitro-4'-Oxy-2,5,2',5'-Tetramethylazobenzol. Sm. 226–227° (B. 37, 2593 C. 1904 [2] 660).
- $C_{14}H_{16}O_5Br_2$ 3) α ,4-Diacetat d. 5-Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol-3-Methyläther. Sm. 112–114° (A. 329, 19 C. 1903 [2] 1435).
- $C_{14}H_{16}O_6N_2$ 11) 1,3-Phenylendisuccinaminsäure. Sm. 215°. Zers. bei 220–221° (A. 327, 31 C. 1903 [1] 1336).
 12) 1,4-Phenylendisuccinaminsäure. Sm. 262° (A. 327, 33 C. 1903 [1] 1336).
 13) Dilaktam d. $\gamma\delta$ -Diimidohexan- $\beta\beta\epsilon\epsilon$ -Tetracarbonsäure- $\beta\epsilon$ -Diäthylester. Sm. 150° (A. 332, 127 C. 1904 [2] 189).
 14) Dicyanmalonmethylacetessigesterlaktam. Sm. 139° (A. 332, 130 C. 1904 [2] 190).
 15) Furfurylamid d. d-Weinsäure. Sm. 179° (Soc. 83, 1346 C. 1904 [1] 83).

- $C_{11}H_{16}O_6Br_2$ 1) α -Acetat d. 6-Brom-2,3,4,5-Tetraoxy-1-[β -Brom- α -Oxypropyl]-benzol-3,4-Methylenäther-2,5-Dimethyläther? Sm. 114—115° (C. 1903 [1] 970).
C 47,7 — H 4,5 — O 31,8 — N 15,9 — M. G. 352.
- $C_{14}H_{16}O_7N_4$ 1) Lakton d. γ -Semicarbazon- α -Oxy- α -[6-Nitro-3,4-Dimethoxyphenyl]butan-2-Carbonsäure (Semicarbazon d. Acetonitritomekonin). Sm. 218° (B. 36, 2209 C. 1903 [2] 443).
- $C_{14}H_{16}O_6J_2$ 2) Tetraacetat d. 1,3-Dijodobenzol. Sm. 204° (B. 37, 1305 C. 1904 [1] 1340).
- $C_{14}H_{16}NCl$ 2) 4-[α -Chloräthyl]-1-Methylbenzol + Pyridin. 2 + $PtCl_4$ (B. 36, 1636 C. 1903 [2] 26).
- $C_{14}H_{16}NJ$ 2) Dimethyldiphenylammoniumjodid. Sm. 163° (B. 36, 2488 C. 1903 [2] 564).
- $C_{14}H_{16}N_3Cl_2$ 1) Diphenochinon-NN'-Dimethyldiimoniumchlorid. 2 + $PtCl_4$ (B. 37, 3774 C. 1904 [2] 1548).
- $C_{14}H_{16}N_2S$ 1) 4-Phenylthiosemicarbazido-2,6-Dimethylpyridin. Sm. 199°. Pikrat (B. 36, 1117 C. 1903 [1] 1185).
- $C_{14}H_{17}ON$ 12) 4-[α -Oxyäthyl]-1-Methylbenzol + Pyridin. Chlorid, 2 Chlorid + $PtCl_4$, Pikrat (B. 36, 1636 C. 1903 [2] 26).
- $C_{14}H_{17}ON_3$ 6) 4'-Amido-4-Dimethylamido-3'-Oxydiphenylamin (*J. pr.* [2] 69, 238 C. 1904 [1] 1269).
7) 5-Oxy-1-Phenyl-3-Hexahydrophenyl-1,2,4-Triazol. Sm. 196—197° (B. 36, 1096 C. 1903 [1] 1140).
- $C_{14}H_{17}O_2N$ 22) $\beta\delta$ -Diketo- γ -[4-Dimethylamidobenzyliden]pentan. Sm. 95° (B. 37, 1744 C. 1904 [1] 1599).
23) Base d. Pyridylumchlorid $C_{14}H_{16}ONCl$. Pikrat (B. 36, 3590 C. 1903 [2] 1365).
24) Benzoat d. 2-Oximido-1-Methylhexahydrobenzol. Sm. 70—72° (A. 329, 376 C. 1904 [1] 517).
25) Benzoat d. d-3-Oximido-1-Methylhexahydrobenzol. Sm. 96—97° (A. 332, 339 C. 1904 [2] 652).
26) Benzoat d. l-3-Oximido-1-Methylhexahydrobenzol. Sm. 82—83° (A. 332, 340 C. 1904 [2] 653).
27) α -Benzoat d. i-3-Oximido-1-Methylhexahydrobenzol. Sm. 105—106° (A. 332, 345 C. 1904 [2] 653).
28) β -Benzoat d. i-3-Oximido-1-Methylhexahydrobenzol. Sm. 70—72° (A. 332, 346 C. 1904 [2] 653).
- $C_{14}H_{17}O_2N_3$ 7) Aethylester d. 1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol-3-Imidoameisensäure (Iminopyrinäthylurethan). Sm. 178° (B. 36, 3284 C. 1903 [2] 1190).
- $C_{14}H_{17}O_3N$ 18) Diäthyläther d. 3-Methyl-5-[2,4-Dioxyphenyl]isoxazol. Sm. 126,5° (B. 37, 356 C. 1904 [1] 670).
19) Anhydrodrastininacetone. Sm. 72° (2 HCl, $PtCl_4$) (B. 37, 214 C. 1904 [1] 590).
- $C_{14}H_{17}O_3N_3$ 4) 4-[β -Oximido- β -4-Isopropylphenyläthyl]-1,2,3,6-Dioxdiazin. Sm. 167,5° u. Zers. (A. 330, 259 C. 1904 [1] 947).
- $C_{14}H_{17}O_3N$ 7) Oxim d. Mekoninmethyldiäthylketon. Sm. 109—112° (M. 25, 1056 C. 1904 [2] 1644).
8) Diäthylester d. 4-Acetylamidobenzol-1,3-Dicarbonsäure. Sm. 108° (D.R.P. 102894). — *II, 1063.
- $C_{14}H_{17}O_3N_3$ 3) α -Benzoylamidopropionylamidooxalylamidooessigsäure. Sm. 204 bis 205°. Ag (*J. pr.* [2] 70, 156 C. 1904 [2] 1395).
4) Methyl ester d. δ -Oximido- ϵ -Phenylhydroxylhydrazon- γ -Keto- β -Methylpentan- β -Carbonsäure. Sm. 137—140°. H_2SO_4 (Soc. 83, 1243 C. 1903 [2] 1421).
C 50,1 — H 5,1 — O 23,9 — N 20,9 — M. G. 335.
- $C_{14}H_{17}O_6N_5$ 1) Verbindung (aus d. β -Dicyanacetessigsäureäthylester). Sm. 219° (A. 332, 137 C. 1904 [2] 190).
- $C_{14}H_{17}O_6N$ 12) α , N-Diäthylester d. Phenylamidoessigsäure-2-Carbonsäure-N-Carbonsäure. Sm. 114—116° (D.R.P. 138207 C. 1903 [1] 305).
13) 2, N-Diäthylester d. Phenylamidoessigsäure-2-Carbonsäure-N-Carbonsäure. Sm. 106—108° (D.R.P. 138207 C. 1903 [1] 305).
- $C_{14}H_{19}ON_2$ 6) Nitril d. α -[4-Oxyphenyl]- α -[1-Piperidyl]essigmethyläthersäure. Sm. 75—76° (B. 37, 4086 C. 1904 [2] 1724).

- $C_{14}H_{18}OBr_2$ 1) $\alpha\beta$ -Dibrom- γ -Keto- α -[4-Isopropylphenyl]pentan. Sm. 141° (A. 330, 259 C. 1904 [1] 947).
- $C_{11}H_{18}O_2N_2$ *3) 5,8-Di[Acetylamido]-1,2,3,4-Tetrahydronaphtalin. Sm. 291—292° (Soc. 85, 755 C. 1904 [2] 448).
- 13) γ -Nitrimido- α -[4-Isopropylphenyl]- β -Methyl- α -Buten. Sm. 169,5° (A. 330, 262 C. 1904 [1] 947).
- $C_{14}H_{18}O_3N_4$ 3) γ -Semicarbazono- δ -Oximido- α -[4-Isopropylphenyl]- α -Buten. Sm. 176° u. Zers. (C. 1904 [1] 28; A. 330, 254 C. 1904 [1] 946).
- $C_{14}H_{18}O_3N_2$ 9) Aethylester d. α -[4-Dimethylamidophenyl]imido- β -Ketopropan- α -Carbonsäure. Sm. 63,5° (B. 36, 3233 C. 1903 [2] 941).
- 9) Isobutylester d. β -Phenylhydrazon- α -Ketobuttersäure. Sm. 98—99° (C. r. 138, 1222 C. 1904 [2] 27; C. r. 139, 134 C. 1904 [2] 588).
- $C_{14}H_{18}O_4N_2$ 9) Methylester d. β -Benzoylamidoacetylamidobuttersäure. Sm. 104° (J. pr. [2] 70, 206 C. 1904 [2] 1459).
- 10) Aethylester d. α -Benzoylamidoacetylamidopropionsäure. Sm. 124 bis 126° (J. pr. [2] 70, 116 C. 1904 [2] 1036).
- 11) Aethylester d. α -Benzoylamidopropionylamidoessigsäure. Sm. 108° (J. pr. [2] 70, 153 C. 1904 [2] 1395).
- $C_{14}H_{18}O_4S_2$ 1) 1,4-Diacetat d. 2,5-Dimerkapto-1,4-Dioxybenzol-2,5-Diäthyläther. Sm. 133—134° (A. 336, 159 C. 1904 [2] 1300).
- $C_{14}H_{18}O_5N_2$ 6) Aethylester d. β -Amido- α -Benzoylamidoacetoxylpropionsäure. Sm. 96° (J. pr. [2] 70, 203 C. 1904 [2] 1459).
- 7) Diäthylester d. 2-Methylphenylnitrosamidomalonsäure. Fl. (Am. 30, 138 C. 1903 [2] 721).
- 8) Diäthylester d. 3-Methylphenylnitrosamidomalonsäure. Sm. 58 bis 58,5° (Am. 30, 140 C. 1903 [2] 721).
- 9) Diäthylester d. 4-Methylphenylnitrosamidomalonsäure (Am. 30, 143 C. 1903 [2] 721).
- $C_{14}H_{18}O_5Br_2$ *1) 3,4-Dimethylenäther-2,5-Dimethyläther- α -Aethyläther d. β -Brom- α -Oxy- α -[6-Brom-2,3,4,5-Tetraoxyphenyl]propan. Sm. 72—73° (C. 1903 [1] 970).
- $C_{14}H_{18}O_5S_2$ 1) Aethylester d. α -[2,4-Dimethylphenylthiosulfon]acetessigsäure. Fl. (J. pr. [2] 70, 386 C. 1904 [2] 1720).
- $C_{14}H_{18}O_7S$ 1) Benzylidenmalonäthylesterhydrosulfonsäure. K + $1\frac{1}{2}H_2O$ (B. 37, 4058 C. 1904 [2] 1649).
- $C_{14}H_{18}O_7Hg$ 1) Verbindung (aus Apio). Sm. 157—158° (B. 36, 3582 C. 1903 [2] 1363).
- $C_{14}H_{18}O_8N_2$ *1) Verbindung (aus Dimethylacetessigsäuremethylester). Sm. 65° (Soc. 83, 1232 C. 1903 [2] 1420).
- $C_{14}H_{18}O_8S_2$ 1) 1,3-Phenylendi[α -Sulfonbuttersäure]. Ba (J. pr. [2] 68, 329 C. 1903 [2] 1171).
- 2) Diäthylester d. 1,3-Phenylendi[Sulfonessigsäure]. Sm. 86—87° (J. pr. [2] 68, 326 C. 1903 [2] 1171).
- $C_{14}H_{18}O_8Hg$ 1) Quecksilberderivat d. 2,3,4,5-Tetraoxy-1-[$\alpha\beta$ -Dioxypropyl]benzol-3,4-Methylenäther-2,5-Dimethyläther. Sm. 174° u. Zers. (B. 36, 3584 C. 1903 [2] 1364).
- $C_{14}H_{18}N_2S$ 5) Isobutyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 313 bis 314° (A. 331, 236 C. 1904 [1] 1221).
- $C_{14}H_{18}ON$ 13) γ -Oximido- α -[4-Isopropylphenyl]- β -Methyl- α -Buten. Sm. 116,5° (A. 330, 262 C. 1904 [1] 947).
- 14) C-Allylcyancampher. Sd. 155—165°₁₀ (C. r. 136, 789 C. 1903 [1] 1085).
- 15) O-Allylcyancampher. Sd. 140—150°₁₀ (C. r. 136, 789 C. 1903 [1] 1085).
- $C_{14}H_{18}ON_3$ C 68,6 — H 7,8 — O 6,5 — N 17,1 — M. G. 245.
- 1) 3-Phenylsemicarbazono-1-Methylhexahydrobenzol. Sm. 169—170° (B. 37, 3181 C. 1904 [2] 991).
- 2) 4-Dimethylamido-3-Keto-5-Methyl-1-Aethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 107° (C. 1897 [1] 1140).
- 3) 4-Methyläthylamido-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 92° (D. R. P. 145603 C. 1903 [2] 1225).
- $C_{14}H_{18}O_2N$ 17) 5-Oxy-3-Methyl-1-Hexylbenzoxazol. Sm. 99° (B. 37, 3109 C. 1904 [2] 994).

- $C_{14}H_{19}O_2N$ 18) Phenylamidoformiat d. Oxymethylhexahydrobenzol. Sm. 82° (*C. r.* 137, 61 *C.* 1903 [2] 551).
 19) Phenylamidoformiat d. 1-Oxy-1-Methylhexahydrobenzol. Sm. 105° (*C. r.* 138, 1324 *C.* 1904 [2] 219).
 20) Phenylamidoformiat d. 2-Oxy-1-Methylhexahydrobenzol. Sm. 103 bis 104° (*A.* 329, 375 *C.* 1904 [1] 517).
- $C_{14}H_{19}O_2N_3$ 3) 4-Nitrophenylhydrazondimethylhexahydrobenzol. Sm. 168° (*B.* 36, 957 *C.* 1903 [1] 1022).
 4) 3-Diäthylamido-4,5-Diketo-3-Methyl-1-Phenyl-4,5-Dihydro-pyrazol. Sm. 66,5–67°. Pikrat (*B.* 36, 1452 *C.* 1903 [1] 1361).
- $C_{14}H_{19}O_3N$ *18) 4-Methylphenylmonamid d. mal. Pentan- $\beta\delta$ -Dicarbonsäure. Sm. 176–177° (*Lf.* [3] 29, 1019 *C.* 1903 [2] 1315).
 32) 4-Methylphenylmonamid d. cis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 117–118° (*C. r.* 136, 243 *C.* 1903 [1] 565).
C 55,1 — *H* 6,2 — *O* 15,7 — *N* 23,0 — *M. G.* 305.
- $C_{14}H_{19}O_3N_5$ 1) Isopropylidenhydrazid d. β -Phenylureidoacetylamidoessigsäure. Sm. 234° u. Zers. (*J. pr.* [2] 70, 256 *C.* 1904 [2] 1464).
- $C_{14}H_{19}O_4N$ 16) Diäthylester d. 2-Methylphenylamidomalonsäure. Fl. HCl (*Am.* 30, 135 *C.* 1903 [2] 720).
 17) Diäthylester d. 3-Methylphenylamidomalonsäure. Sm. 50,5–51° (*Am.* 30, 138 *C.* 1903 [2] 721).
- $C_{14}H_{19}O_4N_3$ 2) Methylester d. β -Benzoylamidoacetylamidopropylamidoameisensäure. Sm. 151° (*J. pr.* [2] 70, 214 *C.* 1904 [2] 1460).
 3) Aethylester d. α -Benzoylamidoacetylamidoäthylamidoameisensäure. Sm. 205° (*J. pr.* [2] 70, 120 *C.* 1904 [2] 1037).
- $C_{14}H_{19}O_4N_5$ *C* 52,3 — *H* 5,9 — *O* 19,9 — *N* 21,8 — *M. G.* 321.
 1) 8-Dipropionylamido-2,6-Diketo-1,3,7-Trimethylpurin. Sm. 140° (*D.R.P.* 139960 *C.* 1903 [1] 859).
- $C_{14}H_{19}O_5N_5$ *C* 49,8 — *H* 5,6 — *O* 23,7 — *N* 20,8 — *M. G.* 337.
 1) Semicarbazon d. Glyazindihydrotetramethylidimalonsäuremethyl-ester- ϵ -Lakton. Sm. 230° (*Soc.* 83, 1258 *C.* 1903 [2] 1423).
- $C_{14}H_{20}O_2N_2$ *2) 2,5-Di[Acetylamido]-4-Isopropyl-1-Methylbenzol. Sm. 260° (*A.* 336, 22 *C.* 1904 [2] 1467).
 10) s-Caproyl-2-Methylphenylharnstoff. Sm. 99–100° (*Soc.* 85, 810 *C.* 1904 [2] 201, 520).
 11) s-Caproyl-4-Methylphenylharnstoff. Sm. 131–132° (*Soc.* 85, 810 *C.* 1904 [2] 201, 520).
 12) 2-Acetylamido-1-Oxy- β -Piperidylmethylbenzol. Sm. 82° (*D.R.P.* 92309). — *IV, 15.
 13) 4-Acetylamido-1-Oxy- β -Piperidylmethylbenzol. Sm. 159° (*D.R.P.* 92309). — *IV, 15.
- $C_{14}H_{20}O_4N_2$ 16) Diäthylester d. 1,3-Phenylendi[Methylamidoameisensäure]. Sm. 160° (*B.* 36, 1682 *C.* 1903 [2] 30).
 17) Diacetat d. β -d-Campherdioxim. Sm. 119° (*Soc.* 85, 910 *C.* 1904 [2] 598).
- $C_{14}H_{20}O_4N_5$ *C* 46,1 — *H* 5,5 — *O* 17,6 — *N* 30,8 — *M. G.* 364.
 1) Diacetylporphyrindin. Sm. 170° u. Zers. (*B.* 36, 1302 *C.* 1903 [1] 1256).
- $C_{14}H_{20}O_6N_2$ *1) Diäthylester d. $\delta\epsilon$ -Diimido- $\beta\eta$ -Diketo- $\gamma\zeta$ -Dicarbonsäure (*D. d.* Dicyandiacetessigsäure). Sm. 132° (*A.* 332, 138 *C.* 1904 [2] 190).
 2) Diäthylester d. isom. Dicyandiacetessigsäure. Sm. 132,5° (*A.* 332, 139 *C.* 1904 [2] 190).
 3) Diäthylester d. $\beta\gamma$ -Diimido- δ -Acetyl- ϵ -Ketohehexan- $\alpha\alpha$ -Dicarbonsäure. Sm. 141–142° (*A.* 332, 148 *C.* 1904 [2] 191).
C 47,2 — *H* 5,6 — *O* 31,5 — *N* 15,7 — *M. G.* 356.
- $C_{14}H_{20}O_7N_4$ 1) Diäthylester d. Acetylbisdiazoacetessigsäure. Sm. 140° (*G.* 34 [1] 192 *C.* 1904 [1] 1333).
- $C_{14}H_{20}O_8N_2$ *1) Dimethylester d. Glyoximperoxyddihydrotetramethylidimalonsäure. Sm. 154° (*Soc.* 83, 1260 *C.* 1903 [2] 1423).
 *2) Dimethylester d. $\delta\epsilon$ -Dioximido- $\gamma\zeta$ -Diketo- $\beta\eta$ -Dimethyloktan- $\beta\eta$ -Dicarbonsäure. Sm. 177° (*Soc.* 83, 1261 *C.* 1903 [2] 1423).
- $C_{14}H_{20}NCl$ 1) Chlorallylat d. 1-Aethyl-1,2,3,4-Tetrahydrochinolin. 2 + $PtCl_4$ (*B.* 35, 3909 *C.* 1903 [1] 36).

- $C_{14}H_{20}NJ$ 3) Methyläthylallyl-4-Methylphenylammoniumjodid (*Ph. Ch.* 45, 239 *C.* 1903 [2] 979).
- 4) Jodallylat d. 1-Aethyl-1, 2, 3, 4-Tetrahydrochinolin. Zers. bei $119-120^\circ$ (*B.* 35, 3909 *C.* 1903 [1] 36).
- $C_{14}H_{20}N_2S$ 5) d-sec. Butylamid d. 1, 2, 3, 4-Tetrahydrochinolin-1-Thiocarbon-säure. Sm. 40° (*Ar.* 242, 62 *C.* 1904 [1] 998).
- 6) d-sec. Butylamid d. 1, 2, 3, 4-Tetrahydroisochinolin-2-Thiocarbon-säure. Sm. 117° (*Ar.* 242, 62 *C.* 1904 [1] 998).
- $C_{14}H_{20}N_3J$ 1) Jodmethylat d. 3-Methylimido-1, 4, 5-Trimethyl-2-Phenyl-2, 3-Dihydropyrazol. Sm. 130° (*B.* 36, 3289 *C.* 1903 [2] 1191).
- $C_{14}H_{21}ON$ 22) O-Propyleycampher (*C. r.* 136, 789 *C.* 1903 [1] 1085).
- 23) Cyanpropylecampher. Sm. 46° ; Sd. $140-150^\circ_{20}$ (*B.* 24 [2] 733). — III, 513.
- 24) 3, 4, 4, 6-Tetramethyl-2-Phenyltetrahydro-1, 3-Oxazin. Sd. 267 bis 270°_{747} . (2HCl, PtCl₄), (HCl, AuCl₃) (*M.* 25, 863 *C.* 1904 [2] 1241).
- $C_{14}H_{21}O_2N$ *19) Aethyläther d. 6-Acetylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 135° (*B.* 36, 2891 *C.* 1903 [2] 875).
- 22) 4-Oximido-1-Keto-2, 5-Dipseudobutyl-1, 4-Dihydrobenzol. Sm. 209° (*Bl.* [3] 31, 971 *C.* 1904 [2] 1113).
- 23) 2-Methylphenylester d. Dipropylamidoameisensäure. Sd. 180°_{19} (*Bl.* [3] 31, 20 *C.* 1904 [1] 508).
- 24) 4-Methylphenylester d. Dipropylamidoameisensäure. Sd. 185°_{18} (*Bl.* [3] 31, 21 *C.* 1904 [1] 508).
- 25) Benzoat d. α -Dimethylamido- β -Oxy- β -Methylbutan. HCl (*C. r.* 138, 767 *C.* 1904 [1] 1196).
- $C_{14}H_{21}O_3N$ *5) 4-Diäthylamidoacetat d. 3, 4-Dioxy-1-Methylbenzol-3-Methyläther. Fl. HCl, (2HCl, PtCl₄), HJ (*Ar.* 240, 639 *C.* 1903 [1] 24).
- 9) 2-Methoxyphenylester d. Dipropylamidoameisensäure. Sd. 196°_{18} (*Bl.* [3] 31, 21 *C.* 1904 [1] 508).
- $C_{14}H_{21}O_3N_3$ C 60,2 — H 7,5 — O 17,2 — N 15,1 — M. G. 279.
- 1) α -[β -Phenylhydrazido]- α -Diäthylamidoäthan- α -Ketocarbonsäure. (4 + 3HCl, AuCl₃) (*B.* 36, 1455 *C.* 1903 [1] 1361).
- $C_{14}H_{21}O_4N$ *4) Diäthylester d. Dihydrocollidindicarbonsäure. Sm. 131° (*A.* 332, 19 *C.* 1904 [1] 1565).
- $C_{14}H_{21}O_5N$ 4) 2, 5-Dimethyläther-3-Propyläther d. 4-Nitro-2, 3, 5-Triox-1-Propylbenzol. Sm. 68° (*B.* 36, 1720 *C.* 1903 [2] 114).
- $C_{14}H_{22}O_3S$ 6) α -Oxyheptyl-4-Methylphenylsulfon (*Am.* 31, 166 *C.* 1904 [1] 875).
- 7) 2-Isoamyl-1, 3, 5-Trimethylbenzol-4-Sulfonsäure. Fl. (*B.* 37, 1720 *C.* 1904 [1] 1489).
- $C_{14}H_{22}O_4N_6$ C 49,7 — H 6,5 — O 18,9 — N 24,9 — M. G. 338.
- 1) 2, 4, 2, 4'-Tetraketo-5, 5, 5', 5'-Tetramethyl-3, 3'-Diäthylkotohydro-1, 1'-Azoimidazol. Sm. 234° u. Zers. (*C.* 1904 [2] 1029).
- $C_{14}H_{22}O_5S_2$ 1) 1, 3-Di[Butylsulfon]benzol. Fl. (*J. pr.* [2] 68, 321 *C.* 1903 [2] 1170).
- $C_{14}H_{22}O_5N_2$ C 56,4 — H 7,4 — O 26,8 — N 9,4 — M. G. 298.
- 1) Aethylester d. 6-Keto-2, 4-Dioxy-5-Cyan-2-Methyl-5-Aethylhexahydropyridin-4-Aethyläther-3-Carbonsäure. Sm. 198° (*Ph.* 33 [2] 167 *C.* 1903 [2] 1283).
- $C_{14}H_{22}O_5Hg_2$ 1) Verbindung (aus Camphen). Sm. $188-189^\circ$ (*B.* 36, 3576 *C.* 1903 [2] 1362).
- $C_{14}H_{22}O_5S_3$ 1) Tetraäthylester d. Dimethyldisulfid- $\alpha\alpha\beta\beta$ -Tetracarbonsäure. Sm. 131° (*B.* 36, 3725 *C.* 1903 [2] 1416).
- $C_{14}H_{22}O_{11}Hg_1$ 1) Verbindung (aus Aceton u. Merkuriacetat). Sm. 157° (*B.* 36, 3703 *C.* 1903 [2] 1239).
- $C_{14}H_{19}ON_3$ *4) Semicarbazon d. α -Jonon. + NaHSO₃ (*C.* 1904 [1] 280).
- *5) Semicarbazon d. β -Jonon. NaHSO₃ + 4H₂O (*C.* 1904 [1] 281).
- 9) Semicarbazon d. Allylcampher. Sm. 180° (*C. r.* 136, 792 *C.* 1903 [1] 1086).
- 10) Semicarbazon d. Camphenilidenacetone. Sm. $178-179^\circ$ (*D. R. P.* 138211 *C.* 1903 [1] 269).
- $C_{14}H_{23}O_5N$ 2) Diäthylester d. β -Amido- γ -Acetyl- δ -Methyl- β -Penten- $\varepsilon\varepsilon$ -Dicarbon-säure. Sm. 75° (*B.* 36, 2190 *C.* 1903 [2] 569).
- $C_{14}H_{23}N_3S$ 2) Thiosemicarbazon d. Iron. Sm. 181° (*C.* 1904 [1] 281).
- 3) Thiosemicarbazon d. α -Jonon. Sm. 121° (*C.* 1904 [1] 281).
- 4) Thiosemicarbazon d. β -Jonon. Sm. 158° (*C.* 1904 [1] 281).

- $C_{14}H_{24}O_3N_2$ 2) 2,4,6-Triketo-5,5-Diisomylhexahydro-1,3-Diazin. Sm. 172° (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 347 C. 1904 [2] 1381).
- $C_{14}H_{24}O_4N_2$ 3) Azin d. Methylacetessigsäureäthylester. Fl. (B. 37, 2831 C. 1904 [2] 642).
- 4) Piperidid d. d-Weinsäure. Sm. 189—190° (Soc. 83, 1348 C. 1904 [1] 83).
- $C_{14}H_{25}O_2N$ *2) Menthylester d. β -Amidopropen- α -Carbonsäure. Sm. 88—89° (Soc. 81, 1505 C. 1903 [1] 138).
- $C_{14}H_{25}O_2N_3$ 1) Semicarbazon d. Pseudojononhydrat. Sm. 144° (D.R.P. 143724 C. 1903 [2] 474).
- $C_{14}H_{25}O_3N_3$ 1) r-Rhodinolester d. α -Semicarbazonpropionsäure. Sm. 112° (C. r. 138, 1701 C. 1904 [2] 440).
- $C_{14}H_{26}ON_3$ *3) Pulegennitrolpiperidid. Sm. 106—107° (A. 327, 132 C. 1903 [1] 1412).
- $C_{14}H_{26}O_3N_2$ *1) Methylster d. α -Dipiperidylxyessigmethyläthersäure. Sd. 106 bis 109°₁₅ (Soc. 85, 987 C. 1904 [2] 830).
- $C_{14}H_{27}O_2N$ 4) Propylester d. l-Menthylamidoameisensäure. Sm. 57° (Soc. 85, 690 C. 1904 [2] 332).
- $C_{14}H_{27}O_2Cl$ 1) β -Chloräthylester d. Laurinsäure. Sm. 24°; Sd. 100° (B. 36, 4341 C. 1904 [1] 433).
- $C_{14}H_{27}O_2Br$ 3) β -Bromäthylester d. Laurinsäure. Sm. 36°; Sd. 124° (B. 36, 4341 C. 1904 [1] 433).
- $C_{14}H_{27}O_3N_3$ 2) β -Dimethyloktylester d. α -Semicarbazonpropionsäure. Sm. 124° (C. r. 138, 985 C. 1904 [1] 1398).
- 3) Caprylat d. β -Semicarbazon- α -Oxypropan. Sm. 104—105° (C. r. 138, 1275 C. 1904 [2] 93).
- $C_{14}H_{28}OS$ 2) Thiolmyristinsäure. Sm. 25°. Na (C. r. 136, 555 C. 1903 [1] 816).
- $C_{14}H_{28}O_4N_2$ 2) Di[α -Oxymethyl- γ -Methylbutylamid] d. Oxalsäure. Sm. 99—100° (C. 1902 [1] 400).
- $C_{14}H_{28}O_{12}N_2$ *1) Oxamid d. Glukamin + $1\frac{1}{2}H_2O$. Sm. 178° (C. 1904 [1] 431).
- 2) isom. Di[$\beta\gamma\delta\epsilon\zeta$ -Pentaoxyhexylamid] d. Oxalsäure (Oxamid d. Mann-amin). Sm. 218—219° (C. r. 138, 505 C. 1904 [1] 872).
- $C_{14}H_{29}ON$ 3) γ -Oximidotetradekan. Sm. 40° (Bl. [3] 29, 1210 C. 1904 [1] 355).
- $C_{14}H_{29}ON_3$ C 65,9 — H 11,4 — O 6,3 — N 16,4 — M. G. 255.
- 1) β -Semicarbazontridekan. Sm. 123° (Bl. [3] 29, 1130 C. 1904 [1] 258).
- $C_{14}H_{29}O_3N$ C 64,9 — H 11,2 — O 18,5 — N 5,4 — M. G. 259.
- 1) Nitrat d. α -Oxytetradekan. Sd. 175—180°₁₂ (C. r. 136, 1563 C. 1903 [2] 338).
- $C_{14}H_{30}O_6S_8$ 1) $\beta\zeta\zeta$ -Triäthylsulfon- β -Methylheptan (B. 37, 508 C. 1904 [1] 883).

— 14 IV —

- $C_{14}H_4O_6N_2Cl_2$ 1) 4,8-Dichlor-1,5-Dinitro-9,10-Anthrachinon (D.R.P. 137782 C. 1903 [1] 108).
- 2) 4,5-Dichlor-1,8-Dinitro-9,10-Anthrachinon (D.R.P. 137782 C. 1903 [1] 108).
- $C_{14}H_4O_6N_2Br_2$ 2) 4,8-Dibrom-1,5-Dinitro-9,10-Anthrachinon (D.R.P. 137782 C. 1903 [1] 108).
- $C_{14}H_4O_{10}N_2Br_2$ 1) p-Dibromdinitro-1,3,5,7-Tetraoxy-9,10-Anthrachinon (D. R. P. 97287 C. 1898 [2] 689). — *III, 313.
- $C_{14}H_6O_2N_2Br_4$ 2) p-Tetrabrom-1,4-Diamido-9,10-Anthrachinon. Sm. noch nicht bei 300° (D.R.P. 137783 C. 1903 [1] 112).
- 3) 2,4,6,8-Tetrabrom-1,5-Diamido-9,10-Anthrachinon (D. R. P. 148109 C. 1904 [1] 230; B. 37, 4183 C. 1904 [2] 1741).
- $C_{14}H_6O_4NCl$ 1) 4-Chlor-1-Nitro-9,10-Anthrachinon (D.R.P. 137782 C. 1903 [1] 108).
- $C_{14}H_6O_4NBr$ 2) 4-Brom-1-Nitro-9,10-Anthrachinon (D.R.P. 137782 C. 1903 [1] 108).
- $C_{14}H_6O_4N_2Br_2$ 1) 2,4-Dibrom-5-Nitro-1-Amido-9,10-Anthrachinon (D. R. P. 151512 C. 1904 [1] 1677).
- $C_{14}H_6O_5NBr$ 1) 2-Brom-4-Nitro-1-Oxy-9,10-Anthrachinon (D. R. P. 127439 C. 1902 [1] 1032). — *III, 300.

- $C_{14}H_8O_8N_2Cl_2$ 1) Chlorid d. 4,4'-Dinitrobiphenyl-2,2'-Dicarbonsäure. Sm. 138° (B. 36, 3744 C. 1904 [1] 37).
- $C_{14}H_8O_8N_4Br_2$ 1) 2,6-Dibrom-4,8-Dinitro-1,5-Diamido-9,10-Anthrachinon. Sm. oberh. 360° (D.R.P. 148109 C. 1904 [1] 230).
- $C_{14}H_6O_{11}N_2S$ 1) 4,8-Diamido-1,5-Dioxy-9,10-Anthrachinon- β -Sulfonsäure (D.R.P. 152013 C. 1904 [2] 378).
- $C_{14}H_8O_{12}Cl_2S_2$ 1) 4,8-Dichlor-1,3,5,7-Tetraoxy-9,10-Anthrachinon-2,6-Disulfonsäure (D.R.P. 99078 C. 1898 [2] 1152). — *III, 313.
- $C_{14}H_8O_{14}N_2S_2$ 3) 4,5-Dinitro-1,8-Dioxy-9,10-Anthrachinon- β -Disulfonsäure (D.R.P. 100136, 101805, 115858, 119228, 119229). — *III, 308.
- 4) β -Dinitro-2,7-Dioxy-9,10-Anthrachinon- β -Disulfonsäure (D.R.P. 99612 C. 1899 [1] 400). — *III, 309.
- $C_{14}H_7ONBr_2$ 1) 2,7-Dibrom-9-Imido-10-Keto-9,10-Dihydrophenanthren. Sm. 231 bis 232° u. Zers. (B. 37, 3570 C. 1904 [2] 1403).
- $C_{14}H_7ONS_2$ 1) Indophtenin (B. 37, 3350 C. 1904 [2] 1058).
- $C_{14}H_7ON_2Cl$ 1) Chloreumarophenazin. Sm. 149—150° (B. 35, 4335 C. 1903 [1] 293).
- $C_{14}H_7O_2NCl_2$ 3) Phenylimid d. 3,5-Dichlorbenzol-1,2-Dicarbonsäure. Sm. 150 bis 150,5° (Soc. 81, 1537 C. 1903 [1] 140).
- $C_{14}H_7O_2NBr_2$ 3) 2,4-Dibrom-1-Amido-9,10-Anthrachinon. Sm. 221° (C. 1904 [2] 340).
- 4) 2,7-Dibrom-9-Oximido-10-Keto-9,10-Dihydrophenanthren. Sm. 229—230° u. Zers. (B. 37, 3570 C. 1904 [2] 1403).
- $C_{14}H_7O_2N_2Cl$ 1) 9,10-Anthrachinon-2-Diazoniumchlorid (B. 37, 62 C. 1904 [1] 520).
- $C_{14}H_7O_2N_2Br_3$ 1) 9,10-Anthrachinon-2-Diazoniumtribromid (B. 37, 62 C. 1904 [1] 520).
- $C_{14}H_7O_2N_6Cl_6$ 1) $\alpha\alpha$ -Di[2,4,6-Trichlorphenylazo]- α -Nitroäthan. Sm. 97,5° u. Zers. (B. 36, 3834 C. 1904 [1] 19).
- $C_{14}H_7O_2N_5Br_3$ 1) $\alpha\alpha$ -Di[2,4,6-Tribromphenylazo]- α -Nitroäthan. Sm. 98° u. Zers. (B. 36, 3835 C. 1904 [1] 19).
- $C_{14}H_7O_5BrS$ 1) 2-Brom-9,10-Phenanthrenchinon- β -Sulfonsäure (B. 37, 3564 C. 1904 [2] 1402).
- $C_{14}H_7O_7NS$ 3) 1-Nitro-9,10-Anthrachinon-5-Sulfonsäure (B. 37, 71 C. 1904 [1] 666).
- 4) 1-Nitro-9,10-Anthrachinon-8-Sulfonsäure (B. 37, 71 C. 1904 [1] 666).
- $C_{14}H_7O_5BrS_2$ 1) 2-Brom-9,10-Phenanthrenchinon- β -Disulfonsäure (B. 37, 3565 C. 1904 [2] 1402).
- $C_{14}H_5ONBr$ 1) 2[oder 7]-Brom-10-Imido-9-Keto-9,10-Dihydrophenanthren. Sm. 169° u. Zers. (B. 37, 3561 C. 1904 [2] 1401).
- $C_{14}H_5ON_2Cl_2$ 4) 2,5-Di[3-Chlorphenyl]-1,3,4-Oxdiazol. Sm. 144°. + AgNO₃ (J. pr. [2] 69, 382 C. 1904 [2] 535).
- $C_{14}H_5ON_2Br_2$ 1) 2,5-Di[2-Bromphenyl]-1,3,4-Oxdiazol. Sm. 108°; Sd. 240—250°₁₃ (J. pr. [2] 69, 476 C. 1904 [2] 536).
- 2) 2,5-Di[3-Bromphenyl]-1,3,4-Oxdiazol. Sm. 179° (J. pr. [2] 69, 478 C. 1904 [2] 536).
- 3) 2,5-Di[4-Bromphenyl]-1,3,4-Oxdiazol. Sm. 249° (J. pr. [2] 69, 480 C. 1904 [2] 536).
- $C_{14}H_5O_2NCl$ 3) 3-Chlor-2-Amido-9,10-Anthrachinon. Sm. 280—283° (D.R.P. 148110 C. 1904 [1] 329).
- 4) β -Chlor-2-Amido-9,10-Anthrachinon (D.R.P. 138134 C. 1903 [1] 209).
- $C_{14}H_5O_2NBr$ *1) 9-Brom-10-Nitrophenanthren. Sm. 206—207° (B. 37, 3573 C. 1904 [2] 1403).
- 3) 3-Brom-2-Amido-9,10-Anthrachinon. Sm. 267—270° (D.R.P. 148110 C. 1904 [1] 329).
- 4) β -Brom-2-Amido-9,10-Anthrachinon (D.R.P. 138134 C. 1903 [1] 209).
- 5) 2[oder 7]-Brom-9-Oximido-10-Keto-9,10-Dihydrophenanthren. Sm. 163—164° (B. 37, 3560 C. 1904 [2] 1401).
- 6) 3[oder 6]-Brom-9-Oximido-10-Keto-9,10-Dihydrophenanthren. Sm. 198° (B. 37, 3572 C. 1904 [2] 1403).
- 7) Bromisoprophtalon. Sm. 153° (B. 36, 1661 C. 1903 [2] 40).

- $C_{11}H_8O_2N_2Br_2$ *2) 2,6-Dibrom-1,5-Diamido-9,10-Anthrachinon. Sm. 274° (*B.* 37, 4181 *C.* 1904 [2] 1741).
- $C_{11}H_8O_2Cl_4Br_2$ 1) $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 248° u. Zers. (*A.* 325, 53 *C.* 1903 [1] 462).
- $C_{14}H_8O_3NBr$ 2) 10-Brom-10-Nitro-9-Keto-9,10-Dihydroanthracen. Zers. bei 116° (*A.* 330 181 *C.* 1904 [1] 891).
- $C_{14}H_8O_3N_5Cl$ 1) Verbindung (aus 1,5-Bisdiazo-9,10-Anthrachinon) (*B.* 35, 3926 *C.* 1903 [1] 88).
- $C_{14}H_8O_4N_2Cl_2$ *2) trans- $\alpha\beta$ -Di[2-Chlor-4-Nitrophenyl]äthen. Sm. 302° (*Soc.* 85, 1437 *C.* 1904 [2] 1740).
- 3) cis- $\alpha\beta$ -Di[2-Chlor-4-Nitrophenyl]äthen. Sm. 172–173° (*Soc.* 85, 1437 *C.* 1904 [2] 1740).
- $C_{14}H_8O_3NCl$ 1) 2-[4-Chlor-3-Nitrobenzoyl]benzol-1-Carbonsäure. Sm. 202–204° (*D.R.P.* 148110 *C.* 1904 [1] 329).
- $C_{14}H_8O_6N_3Cl_3$ 1) Acetat d. 2,3,5-oder-2,3,6-Trichlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 153° (*B.* 36, 3269 *C.* 1903 [2] 1126).
- $C_{14}H_8O_6N_4Cl_2$ 1) Acetat d. 3,5-Dichlor-2,2',4'-Trinitro-4-Oxydiphenylamin. Sm. 177,5° (*B.* 37, 1730 *C.* 1904 [1] 1521).
- 2) Acetat d. 3,5-Dichlor-2',4',6'-Trinitro-4-Oxydiphenylamin. Sm. 259° (*B.* 37, 1730 *C.* 1904 [1] 1521).
- $C_{14}H_8N_2Cl_2S$ 1) 2,5-Di[3-Chlorphenyl]-1,3,4-Thiodiazol. Sm. 151° (*J. pr.* [2] 69, 383 *C.* 1904 [2] 536).
- $C_{14}H_8N_2Br_2S$ 1) 2,5-Di[2-Bromphenyl]-1,3,4-Thiodiazol. Sm. 117° (*J. pr.* [2] 69, 477 *C.* 1904 [2] 536).
- 2) 2,5-Di[3-Bromphenyl]-1,3,4-Thiodiazol. Sm. 175° (*J. pr.* [2] 69, 478 *C.* 1904 [2] 536).
- 3) 2,5-Di[4-Bromphenyl]-1,3,4-Thiodiazol. Sm. 237° (*J. pr.* [2] 69, 480 *C.* 1904 [2] 536).
- $C_{14}H_9O_2NBr_2$ 1) 9,10-Dibrom-9-Nitro-9,10-Dihydrophenanthren. Sm. 81–82° (*B.* 37, 3576 *C.* 1904 [2] 1404).
- $C_{14}H_9O_2N_2Cl$ 1) 6-oder-7-Chlor-3-Oxy-2-[2-Oxyphenyl]-1,4-Benzdiazin. Sm. 286–287° (*B.* 35, 4334 *C.* 1903 [1] 293).
- $C_{14}H_9O_5NS$ 5) 1-Amido-9,10-Anthrachinon-5-Sulfonsäure (*B.* 37, 71 *C.* 1904 [1] 666).
- 6) 1-Amido-9,10-Anthrachinon-7-Sulfonsäure (*D.R.P.* 105634 *C.* 1900 [1] 381; *B.* 37, 69 Anm. *C.* 1904 [1] 666).
- 7) 1-Amido-9,10-Anthrachinon-8-Sulfonsäure (*B.* 37, 71 *C.* 1904 [1] 666).
- $C_{14}H_9O_6NS$ 6) isom. 2-Amidooxy-9,10-Anthrachinonsulfonsäure (*D.R.P.* 105634 *C.* 1900 [1] 381). — *III, 301.
- 7) 4-Amido-1-Oxy-9,10-Anthrachinon-7-Sulfonsäure (*D.R.P.* 101919; *D.R.P.* 155440 *C.* 1904 [2] 1356).
- $C_{14}H_9O_6N_3Cl_2$ 1) Acetylderivat d. 3,5-Dichlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 207–208° (*B.* 36, 3264 *C.* 1903 [2] 1126).
- $C_{14}H_9O_6N_4Cl$ 1) Acetat d. 5-Chlor-2,2',4'-Trinitro-4-Oxydiphenylamin. Sm. 177,5–178° (*B.* 37, 1728 *C.* 1904 [1] 1520).
- 2) Acetat d. 5-Chlor-3,2',4'-Trinitro-4-Oxydiphenylamin. Sm. 188,5° (*B.* 37, 1729 *C.* 1904 [1] 1521).
- 3) Acetat d. 3-Chlor-2',4',6'-Trinitro-4-Oxydiphenylamin. Sm. 173° (*B.* 37, 1728 *C.* 1904 [1] 1520).
- 4) Acetat d. 2-Chlor-2,4',6'-Trinitro-4-Oxydiphenylamin. Sm. 134,5° (*B.* 37, 1729 *C.* 1904 [1] 1521).
- $C_{14}H_{10}ON_2S$ *3) 2-Thiocarbonyl-4-Keto-3-Phenyl-1,2,3,4-Tetrahydro-1,3-Benzdiazin. Sm. oberh. 300° (*Bl.* [3] 31, 882 *C.* 1904 [2] 672).
- 6) 1-Benzoylamidobenzthiazol. Sm. 186° (*A.* 212, 330; *B.* 36, 3136 *C.* 1903 [2] 1071). — IV, 682.
- 7) Phenylamid d. Benzthiazol-1-Carbonsäure. Sm. 160° (*B.* 37, 3729 *C.* 1904 [2] 1450).
- $C_{14}H_{10}ON_3Cl$ 2) 6-oder-7-Chlor-3-Oxy-2-[2-Amidophenyl]-1,4-Benzdiazin. Sm. 204° (*B.* 35, 4332 *C.* 1903 [1] 292).
- 3) isom. 6-oder-7-Chlor-3-Oxy-2-[2-Amidophenyl]-1,4-Benzdiazin. Sm. 239–240° (*B.* 35, 4333 *C.* 1903 [1] 292).
- $C_{14}H_{10}ON_3Br$ 2) 3-Oxy-2-[3-Brom-2-Amidophenyl]-1,4-Benzdiazin. Sm. 249–250° (*B.* 35, 4333 *C.* 1903 [1] 292).

- $C_{14}H_{10}O_2NCl$ *3) Chlorimid d. Benzolcarbonsäure. Sm. 86° (89°) (*Am.* 30, 420 *C.* 1904 [1] 241; *C.* 1904 [1] 803).
- 4) Methyläther d. Verb. $C_{13}H_9O_2NCl$. Sm. 144° (*Bl.* [3] 31, 532 *C.* 1904 [1] 1598).
- 5) Verbindung (aus α -Pikolin u. Phtalylehlorid). HCl (*B.* 36, 1658 *C.* 1903 [2] 40).
- $C_{14}H_{10}O_2N_2Br_2$ *2) $\alpha\beta$ -Di[3-Brombenzoyl]hydrazin. Sm. 265° (*J. pr.* [2] 69, 477 *C.* 1904 [2] 536).
- *5) $\alpha\beta$ -Di[4-Brombenzoyl]hydrazin. Sm. 300° u. Zers. (*J. pr.* [2] 69, 479 *C.* 1904 [2] 536).
- 6) $\alpha\beta$ -Di[2-Brombenzoyl]hydrazin. Sm. 245° (*J. pr.* [2] 69, 475 *C.* 1904 [2] 536).
- $C_{14}H_{10}O_4N_4Br_2$ 1) 2,6-Dibrom-1,4,5,8-Tetraamido-9,10-Anthrachinon (D.R.P. 148109 *C.* 1904 [1] 230).
- $C_{14}H_{10}O_3NCl$ 7) 2-[4-Chlor-3-Amidobenzoyl]benzol-1-Carbonsäure. Sm. 175 bis 176° (D.R.P. 148110 *C.* 1904 [1] 329).
- $C_{14}H_{10}O_3N_2Br_4$ *1) Dimethyläther d. 3,5,3',5'-Tetrabrom-4,4'-Dioxyazoxybenzol. Sm. 214° (*Am.* 30, 61 *C.* 1903 [2] 354).
- 2) trans- $\beta\beta\gamma\gamma$ -Tetrabrom- α -Keto- γ -[2-Nitrophenyl]- α -[2-Pyridyl]-propan. Sm. 120° (*B.* 35, 4066 *C.* 1903 [1] 92).
- $C_{14}H_{10}O_3N_2S_3$ 1) 4-Sulfophenylamid d. Benzthiazol-1-Thiocarbonsäure. Na (*B.* 37, 3728 *C.* 1904 [2] 1450).
- $C_{14}H_{10}O_4NCl$ 1) Phenylester d. 4-Chlorformoxylphenylamidoameisensäure. Sm. 143 — 144° (*J. pr.* [2] 67, 340 *C.* 1903 [1] 1339).
- $C_{14}H_{10}O_4N_2S_2$ 1) 4-Sulfophenylamid d. Benzthiazol-1-Carbonsäure. Na (*B.* 37, 3730 *C.* 1904 [2] 1450).
- $C_{14}H_{10}O_6N_2Br_2$ 1) Dimethylester d. 3,3'-Dibrom-2,2'-Diketo-1,2,1',2'-Tetrahydro-1,1'-Bipyridyl-5,5'-Dicarbonsäure. Sm. 344° (*B.* 37, 3840 *C.* 1904 [2] 1616).
- $C_{14}H_{10}O_6N_2S_2$ 1) 4,8-Dimido-1,5-Diketo-1,4,5,8-Tetrahydro-9,10-Anthrachinon-2,6-Disulfonsäure (D.R.P. 113724 *C.* 1900 [2] 831). — *III, 307.
- 2) 4,4'-Azo- $\alpha\beta$ -Diphenyläthen-2,2'-Disulfonsäure (*C.* 1903 [1] 1414).
- $C_{14}H_{10}O_6N_3Cl$ 1) Acetat d. 2-Chlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 170° (*B.* 36, 3266 *C.* 1903 [2] 1126).
- 2) Acetat d. 3-Chlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 156° (*B.* 36, 3267 *C.* 1903 [2] 1126).
- $C_{14}H_{10}O_6N_3Br$ 1) Acetat d. 2-Brom-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 165 bis 166° (*B.* 36, 3269 *C.* 1903 [2] 1126).
- $C_{14}H_{10}O_7N_2S$ 2) 2,4-Dinitro- $\alpha\beta$ -Diphenyläthen- β -Sulfonsäure. Sm. 70° ; Zers. bei 112 — 120° . Na (*B.* 35, 4146 *C.* 1903 [1] 165).
- 3) 4,5-Diamido-1,8-Dioxy-9,10-Anthrachinon-2-Sulfonsäure (D.R.P. 117893 *C.* 1901 [1] 550; D.R.P. 119228 *C.* 1901 [1] 807). — *III, 308.
- $C_{14}H_{10}O_7N_2S_2$ *1) 4,4'-Azoxy- $\alpha\beta$ -Diphenyläthen-2,2'-Disulfonsäure (*C.* 1903 [1] 1414).
- $C_{14}H_{10}O_{10}N_2S_2$ *1) $\alpha\beta$ -Di[4-Nitrophenyl]äthen-2,2'-Disulfonsäure (*Soc.* 85, 1427 *C.* 1904 [2] 1739).
- 4) 2,4-Dinitro- $\alpha\beta$ -Diphenyläthen- β -Disulfonsäure. Sm. 83 — 85° (125°). Ba + $4H_2O$, Benzidinsalz (*B.* 35, 4147 *C.* 1903 [1] 165).
- 5) β -Diamido-2,6-Dioxy-9,10-Anthrachinon- β -Disulfonsäure. K_2 (D.R.P. 99611 *C.* 1899 [1] 399). — *III, 309.
- 6) β -Diamido-2,7-Dioxy-9,10-Anthrachinon- β -Disulfonsäure. K_2 (D.R.P. 99612). — *III, 309.
- $C_{14}H_{10}O_{10}N_4S$ 1) Dimethyläther d. 4,6,4',6'-Tetranitro-2,2'-Dioxydiphenylsulfid. Sm. 270° (*R.* 23, 114 *C.* 1904 [2] 205).
- 2) Dimethyläther d. 4,6,4',6'-Tetranitro-3,3'-Dioxydiphenylsulfid. Sm. 204° (*R.* 23, 122 *C.* 1904 [2] 206).
- $C_{14}H_{10}O_{10}N_4S_2$ 1) Dimethyläther d. 4,6,4',6'-Tetranitro-3,3'-Dioxydiphenyldisulfid. Sm. 236° u. Zers. (*R.* 23, 123 *C.* 1904 [2] 206).
- $C_{14}H_{10}O_{12}N_2S_2$ *1) 4,8-Diamido-1,3,5,7-Tetraoxy-9,10-Anthrachinon-2,6-Disulfonsäure (*C.* 1903 [2] 1130).
- 3) 4,8-Dihydroxyamido-1,5-Dioxy-9,10-Anthrachinon-2,6-Disulfonsäure (D.R.P. 100137 *C.* 1899 [1] 655). — *III, 307.

- $C_{14}H_{10}O_{12}N_2S_2$ 4) 4,5-Dihydroxylamido-1,8-Dioxy-9,10-Anthrachinon-2,7-Di-sulfonsäure (D.R.P. 100137 C. 1899 [1] 655; D.R.P. 119229 C. 1901 [1] 867). — *III, 308.
- $C_{14}H_{10}N_2J_2S_2$ 1) Jodid d. 2,3-Diphenyl-2,3-Dihydro-1,3,4-Thiodiazol-2,5-Sulfid. Sm. 145° (*J. pr.* [2] 67, 221 C. 1903 [1] 1261).
- $C_{14}H_{11}ONS_2$ 1) Gem. Anhydrid d. Benzolcarbonsäure u. Phenylamidodithioameisensäure (N-Phenyl-S-Benzoyldithiourethan). Sm. 64° (*B.* 36, 3527 C. 1903 [2] 1326).
- $C_{14}H_{11}ON_2Cl$ 4) Chlorid d. α -Phenyl- β -Benzylidenhydrazin- α -Carbonsäure. Sm. 101—102° (*B.* 36, 1358 C. 1903 [1] 1339).
- $C_{14}H_{11}O_2NCl$ 2) 2,3,5,6-Tetrachlor-1,4-Benzochinon + Dimethylamidobenzol. Sm. 105° (*B.* 37, 179 C. 1904 [1] 653).
- $C_{14}H_{11}O_2NBr_2$ 3) Methyläther d. 2,6-Dibrom-4-Benzoylamido-1-Oxybenzol. Sm. 180° (*Soc.* 81, 1480 C. 1903 [1] 23, 144).
- $C_{14}H_{11}O_2N_2Cl$ 10) 2-Methylphenyl-6-Chlor-3-Nitrobenzylidenamin. Sm. 125° (*M.* 25, 370 C. 1904 [2] 322).
- 11) 4-Methylphenyl-6-Chlor-3-Nitrobenzylidenamin. Sm. 133° (*M.* 25, 370 C. 1904 [2] 322).
- 12) s-Benzoyl-4-Chlorphenylharnstoff. Sm. 235—237° (*Am.* 30, 416 C. 1904 [1] 240).
- $C_{14}H_{11}O_3NBr_2$ 3) 2-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 175—178° (*A.* 332, 195 C. 1904 [2] 210).
- 4) 3-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 167° (*A.* 332, 196 C. 1904 [2] 210).
- $C_{14}H_{11}O_3NS_2$ 1) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-3-Allyl-5-[3,4-Dioxybenzyliden]tetrahydrothiazol. Sm. 151° (*M.* 24, 511 C. 1903 [2] 837).
- $C_{14}H_{11}O_3N_2Br$ 3) Methyl ester d. 3-Brom-1-Benzylidenamido-2-Keto-1,2-Dihydro-pyridin-5-Carbonsäure. Sm. 173° (*B.* 37, 3838 C. 1904 [2] 1615).
- $C_{14}H_{11}O_3N_2S$ 2) Äthyläther d. 5-Phthalylamido-2-Merkapto-4-Keto-3,4-Dihydro-1,3-Diazin. Sm. 230—231° (*Am.* 32, 142 C. 1904 [2] 957).
- $C_{14}H_{11}O_4N_2Br$ 1) 2-Methylphenylamid d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 250° (*G.* 34 [1] 276 C. 1904 [1] 1499).
- 2) 4-Methylphenylamid d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 256° u. Zers. (*G.* 34 [1] 276 C. 1904 [1] 1499).
- $C_{14}H_{11}O_4N_3Cl_4$ 1) 2,4,5,6-Tetrachlor-1,3-Dinitrobenzol + Dimethylamidobenzol. Sm. 113° (*B.* 37, 178 C. 1904 [1] 653).
- $C_{14}H_{11}O_4N_4Cl_3$ *1) $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di[4-Nitrophenylamido]äthan. Sm. 216° (C. 1903 [1] 140).
- 2) $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di[2-Nitrophenylamido]äthan. Sm. 171° (C. 1903 [1] 140).
- 3) $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di[3-Nitrophenylamido]äthan. Sm. 212° (C. 1903 [1] 140).
- $C_{14}H_{11}O_4ClS$ 1) 1-[2-Methylphenyl]ester d. Benzol-1-Carbonsäure-2-Sulfonsäurechlorid. Sm. 112° (*Am.* 30, 309 C. 1903 [2] 1122).
- $C_{14}H_{11}O_5N_3Cl_2$ 1) Äthyläther d. p-Dichlor-2',4'-Dinitro-2-Oxydiphenylamin. Sm. 185—186° (*B.* 36, 3269 C. 1903 [2] 1127).
- $C_{14}H_{11}O_5N_4Cl_3$ 1) 2,4,6-Trichlor-1,3,5-Trinitrobenzol + Dimethylamidobenzol. Sm. 78° (*B.* 37, 178 C. 1904 [1] 653).
- $C_{14}H_{11}O_5N_4Br_3$ 1) 2,4,6-Tribrom-1,3,5-Trinitrobenzol + Dimethylamidobenzol. Zers. bei 50° (*B.* 37, 178 C. 1904 [1] 653).
- $C_{14}H_{12}ONCl$ *21) 3-Chlor-2-Methylphenylamid d. Benzolcarbonsäure. Sm. 173° (*B.* 37, 1019 C. 1904 [1] 1202).
- 22) Methyläther d. α -Chlor- α -Phenylimido- α -[4-Oxyphenyl]methan. Sm. 70°; Sd. 220—230°₁₇ (*Am.* 30, 37 C. 1903 [2] 363).
- 23) Diphenylamid d. Chloressigsäure. Sm. 118° (*Ar.* 241, 220 C. 1903 [2] 104).
- $C_{14}H_{12}ON_2S$ 9) Di[Phenylamid] d. Thiooxalsäure. Sm. 144—145° (*B.* 37, 3720 C. 1904 [2] 1450).
- $C_{14}H_{12}O_2NCl_3$ 1) 2,3,5-Trichlor-1,4-Benzochinon + Dimethylamidobenzol. Sm. 65° (*B.* 37, 180 C. 1904 [1] 653).
- $C_{14}H_{12}O_2NBr$ 7) Phenylamidoformiat d. 3-Brom-4-Oxy-1-Methylbenzol. Sm. 135° (*B.* 36, 2875 Ann. C. 1903 [2] 834).

- $C_{14}H_{12}O_2N_2S$ 9) 4-Methylphenylecyanamid d. Benzolsulfonsäure. Sm. 88° (B. 37, 2810 C. 1904 [2] 592).
- $C_{14}H_{14}O_2N_2S_3$ 1) Farbstoff (aus 4-Dimethylamido-4'-Oxydiphenylamin). Zn, + $NaHSO_3$ + $2H_2O$ (J. pr. [2] 69, 168 C. 1904 [1] 1268).
- $C_{14}H_{12}O_2N_2Br$ 2) Phenylamid d. 5-Brom-4-Oxy-3-Methylphenylazoameisensäure. Sm. $212-213^\circ$ (A. 334, 192 C. 1904 [2] 835).
- $C_{14}H_{12}O_3NCl$ 1) 2-Chlorbenzyläther d. 3-Nitro-4-Oxy-1-Methylbenzol. Sm. 104° (D.R.P. 142061 C. 1903 [2] 83).
- 2) 4-Chlorbenzyläther d. 3-Nitro-4-Oxy-1-Methylbenzol. Sm. 103° (D.R.P. 142061 C. 1903 [2] 83).
- $C_{14}H_{12}O_3NBr$ 2) Benzyläther d. 5 - Brom - 3 - Nitro-2-Oxy-1-Methylbenzol. Fl. (D.R.P. 142899 C. 1903 [2] 83).
- $C_{14}H_{12}O_3N_2S$ 3) 4-Methoxyphenylecyanamid d. Benzolsulfonsäure. Sm. $90-91^\circ$ (B. 37, 2811 C. 1904 [2] 593).
- $C_{14}H_{12}O_4N_2S$ 5) α -Benzoyl- β -Phenylsulfonharnstoff. Sm. 208° (B. 36, 3220 C. 1903 [2] 1056; B. 37, 695 C. 1904 [1] 1074).
- $C_{14}H_{12}O_4N_2S_2$ 4) O-4-Sulfophenylamid d. Phenylthiooxaminsäure. Na_2 (B. 37, 3723 C. 1904 [2] 1450).
- $C_{14}H_{12}O_4N_3J_3$ 1) 2,4,6-Trijod-1,3-Dinitrobenzol + Dimethylamidobenzol. Sm. 160° (B. 37, 179 C. 1904 [1] 653).
- $C_{14}H_{12}O_5N_3J$ 1) Äthyläther d. 2-Jod-4-[2,4-Dinitrophenyl]amido-1-Oxybenzol. Sm. 172° (B. 37, 2596).
- $C_{14}H_{12}O_5N_4S$ 2) 4'-Nitro - 2'-Thioureido - 4-Oxydiphenylamin - 3 - Carbonsäure (D.R.P. 139679 C. 1903 [1] 748).
- $C_{14}H_{12}O_6N_2Cl$ 1) 4-Chlor-4,6-Dinitro 5-Methylnitramido-2-Methyldiphenylamin. Sm. 193° (J. pr. [2] 67, 527 C. 1903 [2] 239).
- $C_{14}H_{12}O_6Cl_2S_2$ 1) 4,4'-Dichlor - 3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure. Ba + $3\frac{1}{2}H_2O$ (J. pr. [2] 66, 571 C. 1903 [1] 519).
- $C_{14}H_{12}O_8N_2S_2$ 3) 4-Nitro-4'-Amido-s-Diphenyläthen-2,2'-Disulfonsäure. Na (Bl. [3] 29, 348 C. 1903 [1] 1226).
- $C_{14}H_{12}O_{10}N_2S_2$ *1) $\alpha\beta$ -Di[4-Nitrophenyl]äthan-2,2'-Disulfonsäure (Soc. 85, 1427 C. 1904 [2] 1739).
- $C_{14}H_{13}ONBr_2$ 2) Methylphenyl - 3,5 - Dibrom - 2 - Oxybenzylamin. Sm. $67-68^\circ$ (A. 332, 225 C. 1904 [2] 203).
- $C_{14}H_{13}ONS$ *1) 4-Acetylamidodiphenylsulfid. Sm. 148° (B. 36, 115 C. 1903 [1] 454).
- $C_{14}H_{13}ONS_2$ 1) 2-Thiocarbonyl-4-Keto-5-Cinnamyliden-3-Aethyltetrahydrothiazol. Sm. 187° (M. 25, 177 C. 1904 [1] 895).
- $C_{14}H_{13}ON_2Br$ 7) 2-Oxy - 3-[4-Bromphenylhydrazon]methyl-1-Methylbenzol. Sm. 108° (B. 35, 4105 C. 1903 [1] 149).
- 8) 4-Oxy - 3-[4-Bromphenylhydrazon]methyl-1-Methylbenzol. Sm. 181° u. Zers. (B. 35, 4105 C. 1903 [1] 149).
- 9) Äthyläther d. 2'-Brom-4-Oxyazobenzol. Sm. 39° (B. 36, 3864 C. 1904 [1] 91).
- 10) Äthyläther d. 3'-Brom-4-Oxyazobenzol. Sm. 68° (B. 36, 3868 C. 1904 [1] 92).
- $C_{14}H_{13}ON_2J$ 2) 4'-Jodoso-2,3'-Dimethylazobenzol. Zers. bei 273° (J. pr. [2] 69, 323 C. 1904 [2] 35).
- $C_{14}H_{13}ON_3S$ *4) β -Benzoylamido- α -Phenylthioharnstoff. Sm. $166-167^\circ$ (B. 37, 2330 C. 1904 [2] 313).
- $C_{14}H_{13}O_2NS_2$ 1) Methyläther d. 2-Thiocarbonyl-4-Keto-3-Allyl-5-[4-Oxybenzyliden]tetrahydrothiazol. Sm. 114° (M. 24, 510 C. 1903 [2] 836).
- $C_{14}H_{13}O_2N_2J$ 1) 4'-Jodo - 2,3'-Dimethylazobenzol. Sm. 180° (J. pr. [2] 69, 323 C. 1904 [2] 35).
- $C_{14}H_{13}O_2N_3Cl_2$ 1) 4-[4-Nitrophenyl]hydrazon-1-Dichlormethyl-1-Methyl-1,4-Dihydrobenzol. Sm. 180° u. Zers. (B. 35, 4213 C. 1903 [1] 161).
- $C_{14}H_{13}O_2N_3S$ *1) s-Phenyl-2-Nitro-4-Methylphenylthioharnstoff. Sm. 145° (B. 36, 1138 C. 1903 [1] 1220).
- $C_{14}H_{13}O_3NS$ 11) Methyl-4-Phenylsulfonamidophenylketon. Sm. 128° (Soc. 85, 390 C. 1904 [1] 1404).
- $C_{14}H_{13}O_8NS_2$ 1) 5³-Methyläther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Allyltetrahydrothiazol. Sm. 146° (M. 25, 164 C. 1904 [1] 894).

- $C_{14}H_{13}O_4NS$ 12) 2-[4-Methylphenylsulfon]amidobenzol-1-Carbonsäure. Sm. 227° (B. 35, 4274 C. 1903 [1] 332; B. 36, 663).
- 13) 1-[2-Methylphenyl]ester d. Benzol-1-Carbonsäure-2-Sulfonsäureamid. Sm. 152° (Am. 30, 300 C. 1903 [2] 1122).
- $C_{14}H_{13}O_4N_3S$ 2) α -Phtalimido- β -Pseudoäthylthioharnstoffakrylsäure. Sm. 130 bis 131° (Am. 32, 143 C. 1904 [2] 957).
- $C_{14}H_{13}O_5NS$ 5) 4-Methylphenyl-[3-Nitro- α -Oxybenzyl]sulfon. Sm. 110° (Am. 31, 167 C. 1904 [1] 875).
- 6) 4-Methylphenyl-[4-Nitro- α -Oxybenzyl]sulfon. Sm. 116° (Am. 31, 168 C. 1904 [1] 875).
- 7) 2-Methyldiphenylamin-2'-Carbonsäure-4-Sulfonsäure. Na (D.R.P. 146102 C. 1903 [2] 1152).
- 8) 4-Methyldiphenylamin-2'-Carbonsäure-3-Sulfonsäure. Na (D.R.P. 146102 C. 1903 [2] 1152).
- 9) Methylester d. 3-Phenylsulfonamidobenzol-1-Carbonsäure. Sm. 197° (A. 325, 321 C. 1903 [1] 770).
- 10) Diacetylderivat d. Naphtalin-1-Sulfonsäurehydroxylamid. Sm. 104° (G. 33 [2] 307 C. 1904 [1] 288).
- $C_{14}H_{13}O_6NBr_2$ 1) Diacetat d. 2,6-Dibrom-4-Diacetylamido-1,3-Dioxybenzol. Sm. 123—125° (A. 333, 362 C. 1904 [2] 1116).
- $C_{14}H_{13}O_6N_4Br$ 1) 5-Brom-4-Amido-1,3-Dimethylbenzol + 1,3,5-Trinitrobenzol. Sm. 104—105° (Soc. 85, 238 C. 1904 [1] 1006).
- $C_{14}H_{13}N_2Cl_2Br$ 1) 4-[4-Bromphenyl]hydrazon-1-Dichlormethyl-1-Methyl-1,4-Dihydrobenzol. Sm. 96° (B. 35, 4213 C. 1903 [1] 161).
- $C_{14}H_{13}N_2Cl_2J$ 1) 2,3'-Dimethylazobenzol-4'-Jodidchlorid. Zers. bei 101° (J. pr. [2] 69, 323 C. 1904 [2] 35).
- $C_{14}H_{14}ONCl$ 1) 2-Chlorbenzyläther d. 3-Amido-4-Oxy-1-Methylbenzol. HCl (D.R.P. 142061 C. 1903 [2] 83).
- 2) 4-Chlorbenzyläther d. 3-Amido-4-Oxy-1-Methylbenzol. HCl (D.R.P. 142061 C. 1903 [2] 83).
- $C_{14}H_{14}ONBr$ 8) Benzyläther d. 5-Brom-3-Amido-2-Oxy-1-Methylbenzol. HCl (D.R.P. 142899 C. 1903 [2] 83).
- $C_{14}H_{14}ON_2S$ 10) 4-Methylphenyläther d. 4-Merkaptophenylharnstoff. Sm. 168° (J. pr. [2] 68, 269 C. 1903 [2] 993).
- $C_{14}H_{14}O_4N_2S$ 13) 2-Oxyazobenzoläthyläther-5-Sulfonsäure. Na (B. 36, 2978 C. 1903 [2] 1031).
- $C_{14}H_{14}O_5N_2S$ *2) 2-Naphtylsulfonamidoacetylamidoessigsäure (β -Naphtalinsulfo-glycylglycin). Sm. 180—182° (B. 36, 2105 C. 1903 [1] 1304; B. 36, 2596 C. 1903 [2] 618).
- 4) 5-Nitro-2-[4-Methylphenyl]amidophenylmethan- α -Sulfonsäure. Na (D.R.P. 150366 C. 1904 [1] 1308).
- 5) 5-Nitro-2-[2-Methylphenyl]amidophenylmethan- α -Sulfonsäure. Na (D.R.P. 150366 C. 1904 [1] 1308).
- $C_{14}H_{14}O_6N_2S_2$ *5) 4,4'-Dimethylazobenzol-3,3'-Disulfonsäure (C. 1903 [1] 1414).
- $C_{14}H_{15}ONBr_2$ 1) 6-Brom-5-Oxy-2-Brommethyl-1,4-Dimethylbenzol + Pyridin. Sm. 221—223° u. Zers. (B. 36, 1890 C. 1903 [2] 291).
- $C_{14}H_{15}ON_2Br$ 2) Äthyläther d. 3'-Brom-2-Amido-5-Oxydiphenylamin (B. 36, 3868 C. 1904 [1] 92).
- 3) Äthyläther d. 3'-Brom-4'-Amido-4-Oxydiphenylamin. Sm. 54° (B. 36, 3865 C. 1904 [1] 91).
- $C_{14}H_{15}ON_2P$ 3) 4-Methylphenylimid-4-Methylphenylamid d. Phosphorsäure. Sm. 226—228° (Soc. 83, 1048 C. 1903 [2] 663).
- $C_{14}H_{15}O_2NS$ *9) 2,4-Dimethylphenylamid d. Benzolsulfonsäure. Sm. 124—125° (Soc. 85, 377 C. 1904 [1] 1412).
- *13) 2-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 110° (Soc. 85, 1186 C. 1904 [2] 1115).
- 15) Äthylphenylamid d. Benzolsulfonsäure. Fl. (B. 36, 2706 C. 1903 [2] 829).
- $C_{14}H_{15}O_4N_4Br$ 1) Methylester d. 2-[4-Bromphenyl]amido-1,2,3,6-Oxtriazin-5-[Isobutyryl- α -Carbonsäure]. Sm. 159° (Soc. 83, 1252 C. 1903 [2] 1422).
- $C_{14}H_{15}O_6N_3S_2$ 2) 2,2'-Dimethyldiazoamidobenzol-5,5'-Disulfonsäure (Bl. [3] 31, 644 C. 1904 [2] 96).

- $C_{14}H_{16}ONCl$ 1) Pyridylumchlorid (aus Pyridin u. d. Methyläther d. α -Chlor- α -[2-Oxyphenyl]äthan. Sm. 119—121° (*B.* 36, 3590 *C.* 1903 [2] 1365).
- $C_{14}H_{16}ONJ$ 1) Jodmethylat d. **N-Methyl- β -Naphtomorpholin**. Sm. 163—164° u. Zers. (*Soc.* 83, 763 *C.* 1903 [1] 1419 *C.* 1903 [2] 448).
- $C_{14}H_{16}O_3NP$ *2) Phenylmonamid d. Phosphorsäureäthylphenylester. Sm. 120° (*A.* 326, 226 *C.* 1903 [1] 866).
- $C_{14}H_{16}O_3N_2S$ 2) 4-Amido-4'-Sulfomethylamidodiphenylmethan. Sm. 168° (D.R.P. 148760 *C.* 1904 [1] 555).
- $C_{14}H_{16}O_3N_4S$ 1) β -Diamido- β -Methylazobenzol- β -Sulfonsäure. NH_4 , Na, Ba (*J. pr.* [2] 68, 301 *C.* 1903 [2] 1142).
- $C_{14}H_{16}O_5N_8Cl$ 1) Methylester d. δ -Oximido- ϵ -[4-Chlorphenyl]hydroxyhydrazon- γ -Keto- β -Methylpentan- β -Carbonsäure. Sm. 140°. HCl (*Soc.* 83, 1246 *C.* 1903 [2] 1421).
- $C_{14}H_{16}O_6N_2S_2$ *3) 4,4'-Diamido-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure (*J. pr.* [2] 66, 560 *C.* 1903 [1] 518).
- $C_{14}H_{16}NJS$ 1) Methyl-4-Amidophenyl-4-Methylphenylsulfinjodid. Sm. 80° (*J. pr.* [2] 68, 278 *C.* 1903 [2] 994).
- $C_{14}H_{17}ON_2Cl$ 1) Verbindung (aus 4,4'-Di[Methylamido]biphenyl) (*B.* 37, 3774 *C.* 1904 [2] 1548).
- $C_{14}H_{17}O_2NBr_2$ 1) Acetat d. 1-[3,5-Dibrom-2-Oxybenzyl]hexahydropyridin. Sm. 86—87°. HCl, HBr (*A.* 332, 218 *C.* 1904 [2] 202).
- $C_{14}H_{17}O_2NS_2$ 1) Gem. Anhydrid d. 4-Oxybenzolzomethyläther-1-Carbonsäure u. Hexahydropyridin-1-Dithiocarbonsäure (N-Piperidyl-S-p-Anisoyl-dithiourethan). Sm. 62—65° (*B.* 36, 3524 *C.* 1903 [2] 1326).
- $C_{14}H_{17}O_2N_2P$ 3) Di[Phenylamid] d. Phosphorsäuremonoäthylester. Sm. 114° (*A.* 326, 246 *C.* 1903 [1] 868).
- $C_{14}H_{17}O_3N_2Br$ 2) Isobutyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydrochinolin. Sm. 70° (*J. pr.* [2] 45, 187). — IV, 266.
- $C_{14}H_{17}N_2JS$ 1) 2-Jodmethylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Allyläther. Sm. 125° (*A.* 331, 203 *C.* 1904 [1] 1218).
- 2) 2-Jodallylat d. 5-Merkapto-3-Methyl-1-Phenyl-5-Methyläther. Sm. 142° (*A.* 331, 214 *C.* 1904 [1] 1219).
- $C_{14}H_{18}ON_3P$ 1) Dimethylmonamid-Di[Phenylamid] d. Phosphorsäure. Sm. 196° (*A.* 326, 180 *C.* 1903 [1] 819).
- 2) Äthylamid-Di[Phenylamid] d. Phosphorsäure. Sm. 147° (*A.* 326, 173 *C.* 1903 [1] 819).
- $C_{14}H_{18}O_2N_2Cl_2$ 1) Verbindung (aus Di[Chlormethoxymethyl]äther u. Pyridin). + $PtCl_4$, + $2AuCl_3$ (*A.* 334, 38 *C.* 1904 [2] 948).
- $C_{14}H_{18}N_3SP$ 1) Dimethylmonamid - Di[Phenylamid] d. Thiophosphorsäure. Sm. 209—210° (*A.* 326, 210 *C.* 1903 [1] 822).
- 2) Äthylmonamid-Di[Phenylamid] d. Thiophosphorsäure. Sm. 106° (*A.* 326, 203 *C.* 1903 [1] 821).
- $C_{14}H_{19}ONJ_4$ 1) Verbindung (aus Cineol u. 2,3,4,5-Tetrajodpyrrol). Sm. 112° u. Zers. (*Ar.* 235, 178). — *III, 340.
- $C_{14}H_{19}O_2NBr_2$ 1) N-Acetylamyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 150° (*A.* 332, 187 *C.* 1904 [2] 210).
- $C_{14}H_{19}N_2JS$ 1) 2-Jodmethylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Iso-propyläther + H_2O . Sm. 170—172° (wasserfrei) (*A.* 331, 202 *C.* 1904 [1] 1218).
- 2) 2-Jodmethylat d. 5-Merkapto-3,4-Dimethyl-1-Phenylpyrazol-5-Äthyläther. Sm. 125° (*A.* 331, 219 *C.* 1904 [1] 1219).
- 3) 2-Jodisopropylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Methyläther + H_2O . Sm. 187° (wasserfrei) (*A.* 331, 227 *C.* 1904 [1] 1220).
- $C_{14}H_{20}ONCl$ 2) Nitrosochlorid d. α -[2,4,6-Trimethylphenyl]- γ -Methyl- α -Buten. Sm. 185° u. Zers. (*B.* 37, 930 *C.* 1904 [1] 1209).
- $C_{14}H_{20}ON_2S$ 3) s-Caproyl-2-Methylphenylthioharnstoff. Sm. 97—98° (*Soc.* 85, 810 *C.* 1904 [2] 201, 519).
- 4) s-Caproyl-4-Methylphenylthioharnstoff. Sm. 90—91° (*Soc.* 85, 810 *C.* 1904 [2] 201, 520).
- $C_{14}H_{20}ON_5P$ 1) Dimethylmonamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 194—195° (*A.* 326, 181 *C.* 1903 [1] 819).
- 2) Äthylamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 153° (*A.* 326, 173 *C.* 1903 [1] 819).

- $C_{14}H_{20}O_3NCl$ 3) Chlormethylat d. Methylanhalonidin. 2 + $PtCl_4$ (B. 34, 3015). — *III, 602.
- $C_{14}H_{20}O_3NJ$ 4) Jodmethylat d. α -Methylhydrocotarnin. Sm. 228—229° (B. 36, 4258 C. 1904 [1] 382).
- $C_{14}H_{20}O_3N_2S_2$ 1) Diäthylester d. Benzol-1,3-Di[Sulfonamidoessigsäure]. Sm. 110° (B. 37, 4103 C. 1904 [2] 1727).
- $C_{14}H_{23}O_3NS$ *3) Diisobutylamid d. Benzolsulfonsäure. Sm. 55—56° (B. 36, 2706 C. 1903 [2] 829).
- $C_{14}H_{23}O_3N_2J$ 1) Jodpropylat d. Pilocarpin (B. 35, 2455). — *III, 684.
- $C_{14}H_{23}O_3NS$ 1) Diäthylester d. δ -Oxy- δ -Phenylheptan- δ^2 -Sulfonsäure. Sm. 122 bis 123° u. Zers. (B. 37, 3267 C. 1904 [2] 1031).
- $C_{14}H_{24}O_4N_2S$ 1) Semicarbazon d. Dihydro- α -Jononsulfonsäure. Sm. 203° u. Zers. Na (C. 1904 [1] 280).
- $C_{14}H_{30}N_6SP$ 1) Diäthylmonamid-1,1-Dipiperidid d. Thiophosphorsäure. Sm. 126° (A. 326, 212 C. 1903 [1] 822).
- 2) Isobutylmonamid-1,1-Dipiperidid d. Thiophosphorsäure. Sm. 106° (A. 326, 205 C. 1903 [1] 821). — *IV, 10.
- $C_{14}H_{33}ON_2P$ 1) Aethyläther d. Di[Dipropylamido]oxyphosphin. Sd. 143—147°₂₉ (A. 326, 164 C. 1903 [1] 761).
- $C_{14}H_{33}O_2N_2P$ 1) Di[Dipropylamid] d. Phosphorsäuremonoäthylester. Sd. 164 bis 166°₂₀ (A. 326, 165 C. 1903 [1] 762).

— 14 V —

- $C_{14}H_5O_{11}N_2BrS$ 1) p-Bromdinitro-1,5-Dioxy-9,10-Anthrachinon-p-Sulfonsäure (D.R.P. 114200 C. 1900 [2] 930). — *III, 306.
- 2) Bromdinitro-1,8-Dioxy-9,10-Anthrachinonsulfonsäure. (D.R.P. 114200 C. 1900 [2] 930). — *III, 308.
- $C_{14}H_6ONBrS_2$ 1) Bromindophenin (B. 37, 3351 C. 1904 [2] 1058).
- $C_{14}H_6O_2NCl_2Br$ 1) Phenylimid d. 3,5-Dichlor-4-Brombenzol-1,2-Dicarbonsäure. Sm. 200—200,5° (Soc. 85, 277 C. 1904 [1] 1009).
- $C_{14}H_7O_4NCl_2S$ 1) Dichloramid d. 9,10-Anthrachinon-2-Sulfonsäure. Sm. 177° (C. 1904 [2] 435).
- $C_{14}H_9ON_2Br_4S$ 1) Tetrabrommethylenviolett (B. 37, 2621 C. 1904 [2] 484; B. 37, 3032 C. 1904 [2] 1012).
- $C_{14}H_9O_5N_2ClS$ 1) 6- oder 7-Chlor-3-Oxy-2-[2-Oxyphenyl]-1,4-Benzdiazin-p-Sulfonsäure. Na + 3H₂O, Ba (B. 35, 4335 C. 1903 [1] 293).
- $C_{14}H_9O_7N_2BrS$ 1) p-Brom-4,5-Diamido-1,8-Dioxy-9,10-Anthrachinon-2-Sulfonsäure (D.R.P. 114200 C. 1900 [2] 930). — *III, 308.
- 2) Bromdiamido-1,5-Dioxy-9,10-Anthrachinonsulfonsäure (D.R.P. 114200 C. 1900 [2] 930). — *III, 307.
- $C_{14}H_{10}O_6NClS$ 1) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäure-[2-Methylphenyl]ester-2-Sulfonsäure. Sm. 150° (Am. 30, 379 C. 1904 [1] 275).
- 2) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäure-[4-Methylphenyl]ester-2-Sulfonsäure. Sm. 152° (Am. 30, 380 C. 1904 [1] 275).
- $C_{14}H_{12}O_5NClS$ 1) Methyl-4-Phenylsulfonchloramidophenylketon. Sm. 91° (Soc. 85, 390 C. 1904 [1] 1404).
- $C_{14}H_{14}O_4NClS$ 1) 6-Chlor-2,4-Dimethylphenylamid d. Benzolsulfonsäure. Sm. 148—149° (C. 1904 [1] 1075; Soc. 85, 377 C. 1904 [1] 1412).
- 2) 2-Methylphenylechloramid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 101° (Soc. 85, 1186 C. 1904 [2] 1115).
- 3) 4-Methylphenylechloramid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 109° (Soc. 85, 1186 C. 1904 [2] 1115).
- $C_{14}H_{14}O_2NJS$ 2) Methyl-3-Jodphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 81° (A. 332, 60 C. 1904 [2] 41).
- $C_{14}H_{14}O_3N_2Cl_2S$ 1) 3,3'-Dichlor-4-Amido-4'-Sulfomethylamidodiphenylmethan. Sm. 168—169° (D.R.P. 148760 C. 1904 [1] 555).
- $C_{14}H_{16}ON_2ClP$ 2) Phenylamid-Äethylphenylamid d. Phosphorsäuremono-chlorid. Sm. 113° (A. 326, 255 C. 1903 [1] 869).
- 3) Di[4-Methylphenylamid] d. Phosphorsäuremono-chlorid. Sm. 210° (A. 326, 249 C. 1903 [1] 868).
- $C_{14}H_{33}ON_2SP$ 1) Di[Dipropylamid] d. Thiophosphorsäuremonoäthylester. Sd. 178—180°₂₂ (A. 326, 165 C. 1903 [1] 761).

C₁₅-Gruppe.

- C₁₅H₁₂** *2) 2-Methylantracen (*Soc.* 81, 1581 *C. 1903* [1] 34, 167).
 8) Kohlenwasserstoff (aus β -Chlor- $\alpha\gamma$ -Diphenylpropen). Sm. 121,5° (*B. 37*, 1144 *C. 1904* [1] 1266).
- C₁₅H₁₄** *1) α -Phenyl- β -[4-Methylphenyl]äthen. Sm. 117° (*B. 35*, 3967 *C. 1903* [1] 31).
 *4) $\alpha\alpha$ -Diphenylpropen. Sm. 52°; Sd. 149°₁₁ (*B. 37*, 232 *C. 1904* [1] 660; *B. 37*, 1450 *C. 1904* [1] 1352).
 *5) $\alpha\beta$ -Diphenylpropen. Sm. 82–83° (*B. 36*, 1495 *C. 1903* [1] 1351; *B. 37*, 458 *C. 1904* [1] 949; *B. 37*, 1134 *C. 1904* [1] 1256; *C. r.* 139, 482 *C. 1904* [2] 1038).
- C₁₅H₁₆** *1) $\alpha\beta$ -Diphenylpropan. Sd. 277–279° (*B. 37*, 1450 *C. 1904* [1] 1352).
 *9) $\alpha\alpha$ -Diphenylpropan. Sd. 139°₁₁ (*B. 37*, 1450 *C. 1904* [1] 1352).
- C₁₅H₂₂**
C₁₅H₂₄ *3) d-Cadinen (*Ar.* 241, 148 *C. 1903* [1] 1029).
 *16) Patschoulen. Sd. 112–115°_{12–12,5} (*Ar.* 241, 41 *C. 1903* [1] 713).
 *23) Guajen. Sd. 123–124° (*Ar.* 241, 43 *C. 1903* [1] 713).
 45) Amorphen. Sd. 250–270° (*C. 1904* [2] 224).
 46) Atractylen. Sd. 125–126°₁₀ (*Ar.* 241, 33 *C. 1903* [1] 712).
 47) polym. Atractylen. Sd. 133–141°_{14,5} (*Ar.* 241, 34 *C. 1903* [1] 712).
 48) d-Cadinen. Sd. 260–261° (274–275°) (*Ar.* 240, 291 *C. 1902* [2] 124; *C. r.* 135, 1058 *C. 1903* [1] 233). — *III, 402.
 49) d-Galipen. Sd. 258–259° (*Ar.* 235, 528; 236, 394). — *III, 403.
 50) l-Galipen. Sd. 265° (*Ar.* 235, 641, 642). — *III, 403.
 51) Vetiven. Sd. 262–263°₇₄₀ (*C. r.* 135, 1060 *C. 1903* [1] 234).
 52) Sesquiterpen (aus Citronellöl). Sd. 260–270° u. Zers. (*C. 1899* [2] 879). — *III, 403.
 53) Sesquiterpen (aus Citronellöl). Sd. 272–275°₇₆₀ (*C. 1899* [2] 879). — *III, 403.
 54) d-Sesquiterpen (aus Eucalyptusöl). Sd. 265,5–266°₇₆₀ (*C. 1904* [1] 1264).
 55) l-Sesquiterpen (aus Eucalyptusöl). Sd. 247–248°₇₄₈ (*C. 1904* [1] 1264).
 56) Sesquiterpen (aus Limettöl). Sd. 262–263°₇₅₆ (*Soc.* 85, 415 *C. 1904* [1] 1443).
 57) Sesquiterpen (aus Patschouliöl). Sd. 264–265°₇₅₀ (*B. 37*, 3354 *C. 1904* [2] 1308).
- C₁₅H₆**
C₁₅H₃₀ *6) Dihydrosocaryophyllen. Sd. 137–138°₉ (*B. 36*, 1038 *C. 1903* [1] 1135).
 6) Spilanthen. Sd. 220–225° (*Ar.* 241, 278 *C. 1903* [2] 451).

— 15 II —

- C₁₅H₈O₉** C 54,6 — H 1,8 — O 43,6 — M. G. 330.
 1) 2, 3, 2', 3'-Dicarbonat d. Kohlensäuredi [2, 3-Dioxyphenylester] (Dipyrogalloltricarbonat). Sm. 177° (*B. 37*, 107 *C. 1904* [1] 584).
- C₁₅H₈O₅**
C₁₅H₈O₆ 6) Alochrysin? Sm. 223–224° (*Ar.* 237, 89). — *III, 455.
 4) Rhein. Sm. 313–314° (*C. 1903* [1] 297; *Ar.* 240, 610 *C. 1903* [1] 176; *C. 1904* [1] 1077).
 5) 1,4-Dioxy-9,10-Anthrachinon-2-Carbonsäure? (D. R. P. 84505). — *II, 1185.
 6) Diacetat d. Anhydropurpurogallon. Sm. 174–176° (*Soc.* 83, 198 *C. 1903* [1] 402, 639).
 7) Diacetat d. Anhydroisopurpurogallon. Sm. 280–282° (*Soc.* 83, 198 *C. 1903* [1] 402, 640).
- C₁₅H₈O₁₀** C 51,7 — H 2,3 — O 46,0 — M. G. 348.
 1) Galloflavin (oder C₁₅H₈O₉) (*M.* 25, 603 *C. 1904* [2] 907).
- C₁₅H₁₀O₂** *7) 3-Phenyl-1,2-Benzpyron. Sm. 137° (140°) (*C. 1903* [1] 89; *B. 37*, 3165 *C. 1904* [2] 983).
 *9) 2-Phenyl-1,4-Benzpyron (*B. 37*, 2635 *C. 1904* [2] 540).
 *11) Anthracen-1-Carbonsäure (*B. 37*, 648 *C. 1904* [1] 892).
 19) Phenyläther d. γ -Keto- α -Oxy- γ -Phenylpropin. Sm. 69°; Sd. 178 bis 179°₂₀ (*B. 36*, 293 *C. 1903* [1] 581).

- $C_{15}H_{10}O_3$ *1) $\alpha\beta\gamma$ -Tri keto- $\alpha\gamma$ -Diphenylpropan. Sm. 66—67° (B. 37, 1531 C. 1904 [1] 1609).
 *6) β -Phenylumbelliferon (B. 36, 193 C. 1903 [1] 469).
 *8) 7-Oxy-2-Phenyl-1,4-Benzpyron. Sm. 242—243° (J. pr. [2] 67, 342 C. 1903 [1] 1361).
 23) Methyläther d. 1-Oxy-9,10-Anthrachinon. Sm. 140—145° (D.R.P. 75054). — *III, 300.
 24) Methyläther d. 2-Oxy-9,10-Anthrachinon. Sm. 195—196° (B. 37, 65 C. 1904 [1] 520).
 25) 3-Oxy-2-Phenyl-1,4-Benzpyron (Flavonol). Sm. 169—170° (B. 37, 2820 C. 1904 [2] 712).
 26) 2-Acetyl-3,4- β -Naphtopyron (α -Acetyl- β -Naphtocumarin). Sm. 187° (B. 36, 1973 C. 1903 [2] 377).
 27) 2-Oxyphenanthren-3-Carbonsäure. Sm. 277° (B. 35, 4425 C. 1903 [1] 334).
 28) 3-Oxyphenanthrencarbonsäure. Sm. 303° u. Zers. (B. 35, 4425 C. 1903 [1] 334).
 29) Methylester d. 9-Ketofluoren-2-Carbonsäure. Sm. 181° (M. 25, 451 C. 1904 [2] 450).
- $C_{15}H_{10}O_4$ *2) 5,7-Dioxy-2-Phenyl-1,4-Benzpyron (B. 37, 3168 C. 1904 [2] 1059).
 *8) Chrysophansäure. Sm. 176° (Soc. 81, 1583 C. 1903 [1] 34, 167; Ar. 240, 602 C. 1903 [1] 176; Soc. 83, 1327 C. 1904 [1] 100; C. 1904 [1] 1077).
 40) Sennachrysophansäure. Sm. 171—172° (Ar. 238, 435). — *III, 324.
 41) 2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 224° (B. 30, 1082). — *III, 531.
 42) 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 233—234° (B. 37, 777 C. 1904 [1] 1156).
 43) 3,7-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 257—259° (B. 37, 1182 C. 1904 [1] 1275).
 44) 7,8-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 239° (B. 36, 4242 C. 1904 [1] 382).
 45) 5,7-Dioxy-4-Phenyl-2,1-Benzpyron. Sm. 293° (D.R.P. 73700). — *II, 1144.
- $C_{15}H_{10}O_5$ *6) Emodin. Sm. 254—255° (Ar. 240, 607 C. 1903 [1] 176; Soc. 83, 1329 C. 1904 [1] 100; C. 1904 [1] 1077).
 *15) 3,5,7-Trioxo-2-Phenyl-1,4-Benzpyron + H_2O (Galangin). Sm. 217—218°. K + H_2O (Soc. 83, 135 C. 1903 [1] 89, 466; B. 37, 2805 C. 1904 [2] 712).
 42) isom. Monomethyläther d. 1,2,3-Trioxo-9,10-Anthrachinon. Sm. 233° (M. 23, 1017 C. 1903 [1] 291).
 43) Emodin (aus Feroxaloe). Sm. 216° (Ar. 241, 348 C. 1903 [2] 726).
 44) isom. Isoemodin. Sm. 212° (C. 1904 [1] 1077).
 45) 5,6-Dioxy-2-Keto-1-[2-Oxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 214—216° (B. 29, 2433). — *III, 533.
 46) 5,6-Dioxy-2-Keto-1-[3-Oxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 221—223° (B. 29, 2433). — *III, 533.
 42) 5,6-Dioxy-2-Keto-1-[4-Oxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 220° (B. 29, 2434). — *III, 533.
 47) 3,7,8-Trioxo-2-Phenyl-1,4-Benzpyron. Sm. 249° (B. 37, 2808 C. 1904 [2] 713).
 48) 3,6-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 242—243° (B. 37, 2348 C. 1904 [2] 230).
 49) 3,6-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 300° u. Zers. (B. 37, 960 C. 1904 [1] 1160).
 50) 3,6-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 340° u. Zers. (B. 37, 784 C. 1904 [1] 1159).
 51) 3,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 271° (B. 37, 4158 C. 1904 [2] 1658).
 52) 3,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 298—300° (B. 37, 4160 C. 1904 [2] 1658).
 53) 3,7-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 310° (B. 37, 4162 C. 1904 [2] 1659).

- $C_{15}H_{10}O_6$ *3) 3,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron + H_2O (Fisetin). Sm. 330° u. Zers. (B. 37, 790 C. 1904 [1] 1157).
 *4) Luteolin + H_2O (B. 37, 2627 C. 1904 [2] 538).
 *6) Rhein. Sm. 314° (Ar. 241, 604 C. 1904 [1] 168).
 *18) 3,5,7-Trioxy-2-[4-Oxyphenyl]-1,4-Benzpyron (Kämpferol). Sm. 275° (B. 37, 2098 C. 1904 [2] 121; C. 1904 [2] 453).
 *20) Robigenin + H_2O . Sm. 270° (C. 1904 [1] 1610; Ar. 242, 223 C. 1904 [1] 1651).
 21) 3,6-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 335° u. Zers. (B. 37, 781 C. 1904 [1] 1156).
 22) 3,7,8-Trioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 298° u. Zers. (B. 37, 2630 C. 1904 [2] 539).
 23) 3,7,8-Trioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 260° (B. 37, 2633 C. 1904 [2] 540).
 24) Pigment d. Geraniums. K_2 (B. 36, 3959 C. 1904 [1] 39).
- $C_{15}H_{10}O_7$ *1) 3,5,7-Trioxy-2-[2,4-Dioxyphenyl]-1,4-Benzpyron (Morin) (B. 37, 2350 C. 1904 [2] 230).
 *2) 3,5,7-Trioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron (Quercetin; Sphoretin). Sm. 313—314° u. Zers. (B. 37, 1404 C. 1904 [1] 1356; Ar. 242, 550 C. 1904 [2] 1405).
- $C_{15}H_{11}N$ *2) 2-Phenylchinolin. Sm. 84°; Sd. 363° (C. 1904 [2] 454; M. 25, 621 C. 1904 [2] 1154).
 *9) Nitril d. $\alpha\beta$ -Diphenylakrylsäure. Sm. 86° (B. 36, 2862 C. 1903 [2] 1129).
- $C_{15}H_{12}O$ *4) Benzylidenacetophenon. HCl (B. 37, 1652 C. 1904 [1] 1603).
 12) 3-Keto-1-Phenyl-2,3-Dihydroinden. Sm. 78° (Am. 31, 650 C. 1904 [2] 446).
- $C_{15}H_{12}O_2$ *7) Dibenzoylmethan. Sm. 78° (B. 36, 3677 C. 1903 [2] 1442).
 *15) 2,7-Dimethylxanthon (C. r. 136, 1568 C. 1903 [2] 384).
 *17) 4,5-Dimethylxanthon. Sm. 172° (C. r. 136, 1007 C. 1903 [1] 1267; Bl. [3] 31, 267 C. 1904 [1] 1089).
 *27) Lakton d. 6-Oxy-3-Methyldiphenylelessigsäure. Sm. 106°; Sd. 213°₁₆ (B. 36, 4001 C. 1904 [1] 174).
 39) 3,4-Methylenäther d. α -Phenyl- β -[3,4-Dioxyphenyl]äthen. Sm. 95—96° (B. 37, 1432 C. 1904 [1] 1351).
 40) 3-Methyläther d. 3,4-Dioxyphenanthren (Methylmorphol). Sm. 65° (B. 37, 3497 C. 1904 [2] 1320).
 41) 2-Phenyl-2,3-Dihydro-1,4-Benzpyron (Flavanon). Sm. 75—76° (B. 37, 2634 C. 1904 [2] 540).
 42) 2-Aethyl-3,4- β -Naphthopyron (α -Aethyl- β -Naphthocumarin). Sm. 110° (B. 36, 1970 C. 1903 [2] 377).
 43) Methylester d. Fluoren-2-Carbonsäure. Sm. 120° (M. 25, 449 C. 1904 [2] 449).
 44) Benzoat d. α -Oxy- α -Phenyläthen. Sm. 41°; Sd. 229—230°₅₀ (Soc. 83, 152 C. 1903 [1] 72, 436; B. 36, 3675 C. 1903 [2] 1442).
- $C_{15}H_{12}O_3$ *7) Chrysophanhydroanthron. Sm. oberh. 200° (Ar. 240, 606 C. 1903 [1] 176).
 *15) α -Phenyl- β -[3-Oxyphenyl]akrylsäure. Sm. 172° (B. 37, 4132 Anm. C. 1904 [2] 1736).
 *28) Methylester d. 2-Benzoylbenzol-1-Carbonsäure. Sm. 52°; Sd. 350 bis 352° (M. 25, 475 C. 1904 [2] 336).
 *37) 8-Oxy-5,7-Dimethylfluoron (M. 25, 319 C. 1904 [1] 1495).
 *38) Chrysarobin. Sm. 202° (Soc. 81, 1578 C. 1903 [1] 33, 166).
 42) isom. Methylester d. 2-Benzoylbenzol-1-Carbonsäure. Sm. 80—81°; Sd. 345—348° (M. 25, 477 C. 1904 [2] 337).
- $C_{15}H_{12}O_4$ *5) $\beta\beta$ -Dioxy- $\alpha\gamma$ -Diketo- $\alpha\gamma$ -Diphenylpropan. Sm. 89° (B. 37, 1531 C. 1904 [1] 1609).
 *11) 2-[4-Methoxylbenzoyl]benzol-1-Carbonsäure. Sm. 142—143° (B. 36, 2965 C. 1903 [2] 1007).
 *22) Monobenzylester d. Benzol-1,2-Dicarbonsäure. Sm. 104° (106—107°) (B. 35, 4093 C. 1903 [1] 76; J. pr. [2] 68, 242 Anm. C. 1903 [2] 1063).
 *34) Dibenzoat d. Dioxymethan (C. 1903 [2] 656).
 35) Aldehyd d. 3-Benzoxyl-4-Methoxylbenzol-1-Carbonsäure. Sm. 75° (B. 35, 4398 C. 1903 [1] 341).

- $C_{15}H_{12}O_6$ 14) Butein + H_2O . Sm. 213—215° (wasserfrei) (*C.* 1903 [1] 1415; 1904 [2] 451).
- $C_{15}H_{12}O_6$ 15) Butin + $\frac{1}{2}H_2O$. Sm. 224—226° (*C.* 1903 [1] 1415; 1904 [2] 453).
- $C_{15}H_{12}O_7$ 16) 3,5-Dioxybenzoat d. α -Oxymethylphenylketon. Sm. 206° (D.R.P. 73 700). — *III, 103.
- $C_{15}H_{12}N_2$ 12) Farbstoff (aus *Rosa gallica*). Sm. noch nicht bei 220° (*C.* 1904 [2] 1405).
- 5) Verbindung (aus 1,3,4-Triketo-2-Methyl-1,2,3,4-Tetrahydroisochinolin). Sm. 199° (*B.* 37, 1945 *C.* 1904 [2] 124).
- *2) 1,3-Diphenylpyrazol. Sm. 84—85° (*B.* 36, 3988 *C.* 1904 [1] 171).
- *3) 3,5-Diphenylpyrazol. Sm. 199—200° (*C. r.* 136, 1264 *C.* 1903 [2] 122).
- *6) 4,5-Diphenylimidazol. Sm. 227°. HCl , H_2SO_4 (*B.* 35, 4139 *C.* 1903 [1] 295).
- $C_{15}H_{13}N_4$ *1) 4-Phenylazo-1-Phenylpyrazol. Sm. 124° (*B.* 36, 3669 *C.* 1903 [2] 1313).
- $C_{15}H_1N$ 23) 3,7-Dimethylakridin. Sm. 176° (171°). ($2HCl$, $PtCl_4$), HNO_3 , Bichromat (*B.* 36, 590 *C.* 1903 [1] 724; *B.* 36, 1018 *C.* 1903 [1] 1268).
- $C_{15}H_{13}N_3$ 18) 3-[4-Nitrophenyl]-5-Phenylpyrazol. Sm. 179° (*B.* 37, 1152 *C.* 1904 [1] 1267).
- 19) 2-[β -2-Amidophenyläthenyl]benzimidazol. Sm. 213° (*C.* 1904 [1] 103).
- 20) 2-[β -3-Amidophenyläthenyl]benzimidazol + $\frac{1}{2}H_2O$. Sm. 116° (153° wasserfrei). HCl , ($2HCl$, $PtCl_4$) (*C.* 1904 [1] 103).
- 21) 2-[β -4-Amidophenyläthenyl]benzimidazol. Sm. 225°. $2HCl$ (*C.* 1904 [1] 103).
- $C_{15}H_{13}Cl$ 3) β -Chlor- $\alpha\gamma$ -Diphenylpropen. Sd. 240° u. Zers. (*B.* 37, 1143 *C.* 1904 [1] 1266).
- $C_{15}H_{13}Br$ 1) β -Brom- $\alpha\alpha$ -Diphenylpropen. Sm. 48—49°; Sd. 169—170°₁₂ (*B.* 37, 232 *C.* 1904 [1] 660).
- $C_{15}H_{14}O$ *1) Methyläther d. α -Phenyl- β -[4-Oxyphenyl]äthen. Sm. 135—136° (*B.* 37, 457 *C.* 1904 [1] 949; *A.* 333, 269 *C.* 1904 [2] 1392).
- *6) Dibenzylketon (*B.* 37, 1428 *C.* 1904 [1] 1355).
- 21) γ -Oxy- $\alpha\gamma$ -Diphenylpropen. Fl. (*Am.* 31, 660 *C.* 1904 [2] 447).
- 22) 6-Oxy-3-Methyl- $\alpha\alpha$ -Diphenyläthen. Sd. 187°₂₀ (*B.* 36, 4001 *C.* 1904 [1] 174).
- 23) Methyläther d. 2-Oxy- $\alpha\alpha$ -Diphenyläthen. Sm. 35°; Sd. 166°₁₄ (*B.* 36, 4000 *C.* 1904 [1] 174).
- 24) Methyläther d. 4-Oxy- $\alpha\alpha$ -Diphenyläthen. Sm. 75° (*B.* 37, 4166 *C.* 1904 [2] 1643).
- 25) 2,4'-Dimethyldiphenylketon. Sd. 316—318° (*B.* 36, 2025 *C.* 1903 [2] 376).
- 26) 3,4'-Dimethyldiphenylketon. Sm. 82°; Sd. 328—330° (*B.* 36, 2027 *C.* 1903 [2] 376).
- 27) 4-Methyl-2-Phenyl-1,2-Dihydrobenzofuran. Sm. 57°; Sd. 184°₁₈ (*B.* 36, 4001 *C.* 1904 [1] 174).
- 28) 2,7-Dimethylxanthen. Sm. 165° (*C. r.* 136, 1569 *C.* 1903 [2] 384).
- $C_{15}H_{11}O_2$ *12) $\beta\beta$ -Diphenylpropionsäure. Sm. 147° (*Am.* 31, 651 *C.* 1904 [2] 446).
- 43) 3-Methoxyphenyläther d. α -Oxy- α -Phenyläthen. Sd. 199—200°₁₆ (*Soc.* 83, 1134 *C.* 1903 [2] 1060).
- 44) Oxydimethyldiphenylketon ($CH_3 : CH_3 : OH = 1 : 3 : 4$). Sm. 145—146° (*G.* 33 [2] 60 *C.* 1903 [2] 995).
- 45) Methyläther d. γ -Keto- α -[2-Oxy-1-Naphtyl]- α -Buten. Sm. 171° (*Bl.* [3] 29, 882 *C.* 1903 [2] 885).
- $C_{15}H_{11}O_3$ *9) Dimethyläther d. 4,4'-Dioxydiphenylketon. Sm. 144° (*B.* 36, 654 *C.* 1903 [1] 768).
- *29) Methylester d. α -Oxydiphenylessigsäure. Sm. 73° (*B.* 37, 2765 *C.* 1904 [2] 708).
- *48) Dibenzylester d. Kohlensäure. Sm. 29° (*B.* 36, 159 *C.* 1903 [1] 502).
- 49) 1,3-Dioxy-2,4-Dimethylxanthen. Sm. 185—186° (*M.* 25, 326 *C.* 1904 [1] 1495).
- 50) α -Phenyl- β -[3-Oxyphenyl]akrylsäure. Fl. (*B.* 37, 4134 *C.* 1904 [2] 1736).
- 51) 2-Oxy-1-Methylbenzol-2-[2-Methylphenyl]äther-3-Carbonsäure. Sm. 115° (*Bl.* [3] 31, 267 *C.* 1904 [1] 1088).
- 52) 4-Oxy-1-Methylbenzol-4-[4-Methylphenyl]äther-3-Carbonsäure. Sm. 113—114° (*C. r.* 136, 1569 *C.* 1903 [2] 384).

- $C_{15}H_{14}O_3$ 53) Aldehyd d. 3,4-Dioxybenzol-3-Methyläther-4-Benzyläther-1-Carbonsäure. Sm. 63—64° (D.R.P. 65937). — *III, 75.
 54) 2-Methylphenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 38° (D.R.P. 46756). — *II, 919.
 55) 2-Methylphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 34° (D.R.P. 46756). — *II, 920.
 56) 2-Methylphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 48° (D.R.P. 46756). — *II, 922.
 57) 3-Methylphenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 57° (D.R.P. 46756). — *II, 919.
 58) 3-Methylphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 63° (D.R.P. 46756). — *II, 920.
 59) 3-Methylphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 68° (D.R.P. 46756). — *II, 922.
 60) 4-Methylphenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 29° (D.R.P. 46756). — *II, 919.
 61) 4-Methylphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 74—75° (D.R.P. 46756). — *II, 920.
 62) 4-Methylphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 79° (D.R.P. 46756). — *II, 922.
- $C_{15}H_{14}O_4$ 25) Methylenäther d. ϵ -Keto- δ -Acetyl- α -[3,4-Dioxyphenyl]- $\alpha\gamma$ -Hexadien. Sm. 105° (B. 37, 1700 C. 1904 [1] 1497).
 26) Äthylester d. 3-Acetoxy-naphtalin-2-Carbonsäure. Sm. 82—83° (Z. Kr. 29, 285). — *II, 989.
 27) 2-Methoxyphenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 60—61° (D.R.P. 57941). — *II, 919.
 28) 2-Methoxyphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 97—98° (D.R.P. 57941). — *II, 920.
 29) 2-Methoxyphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 86° (D.R.P. 57941). — *II, 922.
 30) Benzozat d. 1,2,3-Trioxymethylbenzol-1,2-Dimethyläther. Sm. 55—57° (M. 25, 515 C. 1904 [2] 1118).
- $C_{15}H_{14}O_5$ *8) Acakatechin (C. 1904 [2] 439).
 *9) Katechin b + $4H_2O$. Sm. 96° (210° wasserfrei) (C. 1903 [1] 883; B. 36, 101 C. 1903 [1] 397).
 11) Cyanomaklurin. Zers. bei 250° (Soc. 67, 939; Soc. 81, 1173 C. 1902 [2] 199; C. 1904 [2] 438). — III, 684.
 12) Decocacetin. Sm. 238° (J. pr. [2] 66, 412 C. 1903 [1] 527).
- $C_{15}H_{14}N_2$ *24) Nitril d. α -[4-Methylphenyl]amido- α -Phenylelessigsäure. Sm. 109° (B. 37, 4079 C. 1904 [2] 1722).
 *25) Nitril d. Dibenzylamidoameisensäure. Sm. 54° (B. 36, 1199 C. 1903 [1] 1215).
 *27) Nitril d. α -Methylphenylamido- α -Phenylelessigsäure. Sm. 63—64° (B. 37, 4085 C. 1904 [2] 1723).
 30) α -Phenylamido- γ -Phenylimidopropen. Sm. 115°. HCl (B. 36, 3667 C. 1903 [2] 1312).
 31) 2-Amido-3,7-Dimethylakridin. Sm. 244°. HCl (B. 36, 1025 C. 1903 [1] 1268; Soc. 85, 531 C. 1904 [1] 1525).
 32) Nitril d. Phenylbenzylamidoessigsäure. Fl. (B. 37, 4083 C. 1904 [2] 1723).
- $C_{15}H_{14}Br_2$ 3) $\alpha\beta$ -Dibrom- $\alpha\beta$ -Diphenylpropan. Sm. 134—135° (127° u. Zers.) (B. 37, 458 C. 1904 [1] 949; B. 36, 1496 C. 1903 [1] 1351; B. 37, 458 C. 1904 [1] 949; B. 37, 1134 C. 1904 [1] 1256).
 4) $\alpha\beta$ -Dibrom- α -Phenyl- β -[4-Methylphenyl]äthan. Sm. 185° (B. 35, 3967 C. 1903 [1] 31).
- $C_{15}H_{15}N$ 20) 4-Äthylbenzylidenamidobenzol. Sm. 2—3°; Sd. 208—210°₃₀ (C. r. 136, 558 C. 1903 [1] 832).
 21) α -[4-Methylphenyl]- β -[6-Methyl-2-Pyridyl]äthen. Sm. 144—145°. (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (B. 36, 1684 C. 1903 [2] 46).
 22) 3,7-Dimethyl-5,10-Dihydroakridin. Sm. 218—220° (B. 36, 1019 C. 1903 [1] 1268).
- $C_{15}H_{15}N_3$ *15) 2,8-Diamido-3,7-Dimethylakridin. Sm. oberh. 300°. HCl (D.R.P. 52324; B. 36, 589 C. 1903 [1] 724).

- $C_{15}H_{15}N_3$ 16) 2-[2-Amidobenzyliden]amido-1-Methylimidomethylbenzol. Sm. 189 bis 190°. 2HCl (B. 37, 3653 C. 1904 [2] 1514).
- $C_{15}H_{16}O$ *23) α -Oxy- α -Diphenylpropan. Sm. 92° (94—95°); Sd. 170—172°₁₄ (C. r. 138, 154 C. 1904 [1] 577; B. 37, 231 C. 1904 [1] 660).
- 24) β -Oxy- α - β -Diphenylpropan. Sm. 50—51°; Sd. 175°₁₅ (B. 37, 457 C. 1904 [1] 949).
- 25) Methyläther d. 2-Oxy- α -Diphenyläthan. Sm. 26°; Sd. 160—161°₁₁ (B. 36, 4008 C. 1904 [1] 175).
- 26) Phenyläther d. γ -Oxy- α -Phenylpropan. Sd. 171—172°₁₁ (C. r. 138, 1049 C. 1904 [1] 1493).
- $C_{15}H_{16}O_2$ *12) Dibenzyläther d. Dioxymethan. Sd. 280° u. ger. Zers. (Bl. [3] 27, 1217 C. 1903 [1] 225).
- 21) 2-Methyläther d. α ,2-Dioxy- α -Diphenyläthan. Sm. 75,5°; Sd. 285 bis 287° (B. 36, 4002 C. 1904 [1] 174).
- $C_{15}H_{16}O_3$ 12) 4,4'-Dimethyläther d. α -Oxydi[4-Oxyphenyl]methan. Sm. 72° (B. 36, 655 C. 1903 [1] 768).
- 13) Artemisinsäure. Sm. 135—136°. Ba (C. 1903 [2] 1377).
- 14) Aethylester d. 3-Oxynaphtalinäthyläther-2-Carbonsäure. Sm. 60° (Z. Kr. 29, 285). — *II, 989.
- $C_{15}H_{16}O_4$ 15) Verbindung (aus p-Anisol). HCl (B. 36, 650 C. 1903 [1] 768).
- $C_{15}H_{16}O_5$ *1) Di[4,6-Dioxy-2-Methylphenyl]methan (A. 329, 302 C. 1904 [1] 793).
- 9) γ -Oxy- β -Diketo- γ -Benzoyl- δ -Acetylhexan. Sm. 103° (B. 36, 3229 C. 1903 [2] 941).
- $C_{15}H_{16}O_6$ 9) Methylenbismethylphloroglucin. Sm. 230° (A. 329, 279 C. 1904 [1] 796).
- 10) Dimethylester d. 1,3,5-Trimethylbenzol-2,4-Di[Ketocarbonsäure]. Sm. 103,5—104°. — *II, 1174.
- $C_{15}H_{16}N_2$ *8) 1-[α -Phenylamido- α -Dimethylamidomethyl]benzol. Sm. 72° (B. 37, 2680 C. 1904 [2] 521).
- *17) α -Phenylhydrazon- α -[4-Methylphenyl]äthan. Sm. 94—95° (B. 35, 1877 C. 1903 [2] 287).
- 32) α -Aethylamido- α -Phenylamido- α -Phenylmethan. Sm. 74—76°. (2HCl, PtCl₄ + 2H₂O) (Soc. 83, 321 C. 1903 [1] 580, 876).
- $C_{15}H_{16}N_4$ *1) α - β -Di[Phenylhydrazon]propan. Sm. 150—154° (A. 335, 254 C. 1904 [2] 1283).
- 12) β -[4-Methylphenyl]azomethylen- α -[4-Methylphenyl]hydrazin (Di-p-Tolylformazylwasserstoff). Sm. 105° (B. 36, 1373 C. 1903 [1] 1343).
- $C_{15}H_{16}J_2$ 2) 2-Methyl-4-Aethyldiphenyljodoniumjodid. Sm. 139° (A. 327, 294 C. 1903 [2] 352).
- $C_{15}H_{17}N$ *6) Aethylphenylbenzylamin. Sd. 275—298°. Pikrat (A. 334, 236 C. 1904 [2] 900).
- *8) Methylbenzyl-2-Methylphenylamin. Sd. 167°₁₃. Pikrat (B. 37, 3898 C. 1904 [2] 1612).
- $C_{15}H_{17}N_3$ *7) 4-Dimethylamidobenzylidenphenylhydrazin. Sm. 148° (B. 37, 859 C. 1904 [1] 1206).
- 18) 2-Dimethylamidobenzylidenphenylhydrazin. Sm. 74—74,5° (B. 37, 977 C. 1904 [1] 1079).
- 19) 4-Aethylamidobenzylidenphenylhydrazin. Sm. 178° (B. 37, 858 C. 1904 [1] 1206).
- 20) 4-Methylamido-3-Methylbenzylidenphenylhydrazin. Sm. 124° (B. 37, 863 C. 1904 [1] 1206).
- $C_{15}H_{18}O_2$ 8) Methyläther d. 3-Keto-4-[4-Oxybenzyliden]-1-Methylhexahydrobenzol. Sm. 97° (C. r. 136, 1225 C. 1903 [2] 116).
- $C_{15}H_{18}O_3$ *5) Desmotroposantonin (B. 36, 2667 C. 1903 [2] 951).
- *9) Santonid. Sm. 127° (C. 1903 [2] 1067).
- *10) Parasantonid. Sm. 110° (C. 1903 [2] 1066).
- $C_{15}H_{18}O_4$ 9) Dimethylester d. α -Phenyl- α -Buten- δ -Carbonsäure- γ -Methylcarbonsäure. Sm. 70° (B. 36, 2339 C. 1903 [2] 438).
- $C_{15}H_{18}O_5$ 11) Mekoninmethylpropylketon. Sm. 91—95° (M. 25, 1054 C. 1904 [2] 1644).
- 12) Mekoninmethylisopropylketon. Sm. 88—91° (M. 25, 1055 C. 1904 [2] 1644).
- 13) Dehydrodioxyparasantonsäure. Sm. 187—188°. Ba + H₂O, Ag₂ (C. 1903 [2] 1447).

- $C_{15}H_{18}O_6$ 12) Diäthylester d. 3-Methoxyphenoxylfumarsäure. *Sd.* 206—207°₁₂ (*Soc.* 83, 1132 *C.* 1903 [2] 1059).
- $C_{15}H_{16}N_2$ *19) $\alpha\alpha$ -Di[Phenylamido]propan. *Fl.* (A. 328, 127 *C.* 1903 [2] 790).
- 23) 4,4'-Di-[Methylamidophenyl]methan. *Sm.* 56—57° (55°) (D. R. P. 68011; *B.* 37, 2675 *C.* 1904 [2] 443).
- 24) Di[3-Methylphenylamido]methan. *Sd.* 146°₁₃ (*B.* 36, 43 *C.* 1903 [1] 504).
- 25) Äthylbenzyl-4-Amidophenylamin. *Sd.* 225°₂₁. Oxalat (*A.* 334, 262 *C.* 1904 [2] 902).
- 26) Nitril d. α -Phenyl- γ -[1-Piperidyl]propen- γ -Carbonsäure. *Sm.* 98 bis 99° (*B.* 37, 4087 *C.* 1904 [2] 1724).
- $C_{15}H_{18}N$ 2) N,4,7[oder N,6,7]-Trimethylcarbazolenin. *Pikrat* (*C.* 1904 [2] 343).
- $C_{15}H_{18}N_3$ 8) Verbindung (aus d. Verb. $C_{16}H_{19}N_4Cl$, $HCl + 2H_2O$). *Sm.* 118° (*B.* 37, 554 *C.* 1904 [1] 893).
- $C_{15}H_{20}O_2$ 9) Benzoat d. β -Oxy- γ -Methyl- α -oder- β -Hepten. *Sd.* 197—200°₅₀ (*Soc.* 83, 151 *C.* 1903 [1] 72, 436).
- $C_{15}H_{20}O_3$ *9) i-Santonigesäure (*B.* 36, 2668 *C.* 1903 [2] 951).
- $C_{15}H_{20}O_4$ *4) Santonsäure (*B.* 37, 258 *C.* 1904 [1] 642).
- *5) Isosantonsäure. *Sm.* 152° (*C.* 1903 [2] 1067).
- *7) Parasantonsäure. *Sm.* 170° (*C.* 1903 [2] 1067, 1446).
- 29) l-Desmotroposantoninsäure. *Ba* (*R. A. L.* [5] 7 II, 322. — *II, 1046).
- 11) Oxyparasantonsäure. *Sm.* 189—190°. *Ba* (*C.* 1903 [2] 1377).
- 8) Dioxyparasantonsäure. *Sm.* 206—207° (*C.* 1903 [2] 1447).
- $C_{15}H_{20}O_5$ 13) Methylenäther d. $\alpha\gamma$ -Dioxy- α -[4-Isopropylphenyl]- β -Methylpropen. *Sd.* 154—157°₁₀ (*M.* 24, 258 *C.* 1903 [2] 243).
- $C_{15}H_{22}O_3$ *14) Methylster d. Allylcamphocarbonsäure. *Sm.* 75—76° (*C. r.* 136, 791 *C.* 1903 [1] 1086).
- 15) Acetat d. 9-Methyl-3-Isopropenylbicyclo-[1,3,3]-Nonan-5-ol-7-on. *Sd.* 178—182°₁₅ (*B.* 36, 230 *C.* 1903 [1] 514).
- $C_{15}H_{22}O_4$ 9) Äthylester d. $\beta\beta$ -Dioxy- β -Phenylpropiondiäthyläthersäure. *Sd.* 153°₁₃ (*C. r.* 138, 207 *C.* 1904 [1] 659).
- $C_{15}H_{22}O_5$ 9) Santolsäure. *Sm.* 166—167°. *Ba + H_2O*, *Ag* (*G.* 33 [1] 202 *C.* 1903 [1] 45).
- $C_{15}H_{22}O_7$ *3) Glyko-o-Oxyphenyläthylcarbinol. *Sm.* 145—150° u. Zers. (*B.* 36, 2582 *C.* 1903 [2] 621).
- $C_{15}H_{22}O_8$ *4) Tetraäthylester d. R-Trimethylen-1,1,2,2-Tetracarbonsäure. *Sm.* 43°; *Sd.* 158—160°₁₄ (*J. pr.* [2] 68, 167 *C.* 1903 [2] 760).
- $C_{15}H_{22}O_9$ 2) $\alpha\beta\gamma$ -Trimethylester- $\delta\delta$ -Diäthylester d. ϵ -Ketoheptan- $\alpha\beta\gamma\delta\delta$ -Pentacarbonsäure. *Sm.* 102° (*B.* 36, 3296 *C.* 1903 [2] 1167).
- $C_{15}H_{22}O_{10}$ *2) Tetraacetat d. β -Methyl-d-Glykosid (*C.* 1903 [1] 1369).
- 5) Saponin (*Ar.* 241, 615 *C.* 1904 [1] 169).
- $C_{15}H_{23}N$ 5) d-2-Propyl-1-Benzylhexahydropyridin (N-Benzylconiin). *Sd.* 294 bis 296° (*B.* 37, 3633 *C.* 1904 [2] 1510).
- $C_{15}H_{24}O$ 23) sec. Amylidencampher. *Sd.* 253—260°₇₅₆ (*B.* 36, 2631 *C.* 1903 [2] 625).
- 24) Äethylpseudojonon (D. R. P. 150771 *C.* 1904 [1] 1307).
- 25) Coleresen = ($C_{15}H_{24}O$)_x. *Sm.* 75—77° (*Ar.* 242, 351 *C.* 1904 [2] 526).
- 26) Taceleresen = ($C_{15}H_{24}O$)_x. *Sm.* 75° (*Ar.* 242, 363 *C.* 1904 [2] 527).
- $C_{15}H_{24}O_2$ 4) Isovalerylcampher. *Sd.* 141—148°₁₁ (*B.* 37, 762 *C.* 1904 [1] 1085).
- $C_{15}H_{24}O_3$ 10) Barringtonenin. *Sm.* 179—180° (*C.* 1903 [2] 841).
- 11) Methylster d. Propylcamphocarbonsäure. *Sm.* 69—70° (*C. r.* 136, 790 *C.* 1903 [1] 1085).
- 12) Methylster d. isom. Propylcamphocarbonsäure. *Sm.* 30° (*C. r.* 136, 790 *C.* 1903 [1] 1085).
- 13) Isobutylester d. Camphocarbonsäure. *Sd.* 177°₁₉ (*C. r.* 136, 240 *C.* 1903 [1] 584).
- 14) d-Bornylester d. β -Acetylpropionsäure. *Sd.* 170—171°₃₀₋₂₅ (*P. Ch. S.* No. 230). — III, 338.
- $C_{15}H_{24}O_4$ 5) Säure (aus Vetiveröl). *Ag*₂ (*C. r.* 135, 1060 *C.* 1903 [1] 234).
- 6) Verbindung (aus Hopfenbitter). *Sm.* 92,5 (*C.* 1904 [2] 1227).
- $C_{15}H_{24}O_5$ 2) Dimethylester d. Pulegonmalonsäure. *Sm.* 49; *Sd.* 187°₁₅ (*B.* 33, 3186 *Ann.*). — III, 383.
- $C_{15}H_{24}Br_2$ 1) Atractylendibromid. *Fl.* (*Ar.* 241, 36 *C.* 1903 [1] 712).
- $C_{15}H_{25}O$ 1) β -Tacoresen. *Sm.* 82° (*Ar.* 242, 398 *C.* 1904 [2] 528).
- $C_{15}H_{25}O_2$ 1) Tacamaholsäure. *Sm.* 104—106° (*Ar.* 242, 397 *C.* 1904 [2] 528).

- C₁₅H₂₅Cl** *2) Chlorid d. Caryophyllenhydrat. Sm. 64°; Sd. 295° (*B.* 36, 1038 *C.* 1903 [1] 1135).
- C₁₅H₂₅J** 3) Atractyljodid. Fl. (*Ar.* 241, 29 *C.* 1903 [1] 712).
4) Guajyljodid (*Ar.* 241, 43 *C.* 1903 [1] 713).
- C₁₅H₂₆O** *7) Guajol. Sm. 91° (*Ar.* 241, 42 *C.* 1903 [1] 713).
*9) Patschoulialkohol. Sm. 56°; Sd. 266—271° (*Ar.* 241, 39 *C.* 1903 [1] 712).
20) Atractylol. Sm. 59°; Sd. 290—292°₇₆₃ (*Ar.* 241, 23 *C.* 1903 [1] 712).
21) Farnesol. Sd. 160°₁₀ (D.R.P. 149603 *C.* 1904 [1] 975; *B.* 37, 1095 *C.* 1904 [1] 1065).
22) Gallipol. Sd. 264—265° (*Ar.* 235, 526; 236, 392, 408). — *III, 386.
23) Gurjuresinol. Sm. 131—132° (*Ar.* 241, 385 *C.* 1903 [2] 724).
24) Matikocampher. Sm. 94° (*B.* 16, 2841 *C.* 1904 [2] 1125). — III, 513.
25) d-Nerolidol. Sd. 276—277° (*J. pr.* [2] 66, 503 *C.* 1903 [1] 517). — *III, 387.
26) Vetivenol. Sd. 169—170°₁₅ (*C. r.* 135, 1060 *C.* 1903 [1] 234).
27) Sesquiterpenalkohol (aus Copaivabalsam). Sm. 113,5—115° (*C.* 1904 [2] 1223; *Ar.* 242, 542 *C.* 1904 [2] 1500).
28) Sesquiterpenalkohol (aus Eucalyptusöl). Sd. 247—248°₇₁₈ (*C.* 1904 [1] 1264).
- C₁₅H₂₆O₂** 12) α-Oxy-α-Methylbutylcampher. Fl. (*B.* 36, 2631 *C.* 1903 [2] 625).
13) Aethylpseudojononhydrat. Sd. 198—205° (D.R.P. 150771 *C.* 1904 [1] 1307).
14) l-Menthylester d. α-Buten-α-Carbonsäure. Sd. 152—153,5°₁₄ (*A.* 327, 173 *C.* 1903 [1] 1396).
15) l-Menthylester d. α-Buten-δ-Carbonsäure. Sd. 139—140°₁₄ (*A.* 327, 174 *C.* 1903 [1] 1396).
16) l-Menthylester d. β-Buten-α-Carbonsäure. Sd. 143—144,5°₁₄ (*A.* 327, 173 *C.* 1903 [1] 1396).
17) l-Menthylester d. R-Tetramethylen-carbonsäure. Sd. 148°₁₄ (*A.* 327, 183 *C.* 1903 [1] 1396).
18) Valerianat d. Cyklogeraniol. Sd. 145—155°₂₀ (D.R.P. 138141 *C.* 1903 [1] 267).
19) Valerianat d. Isoborneol. Sd. 136°₁₂ (*C. r.* 136, 239 *C.* 1903 [1] 584).
- C₁₅H₂₆O₃** *16) Tributyrat d. αβγ-Trioxypentan (*C.* 1903 [1] 134).
23) Triäthylester d. β-Methylpentan-βγδ-Tricarbonsäure. Sd. 195°₄₀ (*Soc.* 85, 136 *C.* 1904 [1] 727).
24) Triäthylester d. β-Methylpentan-δδδ-Tricarbonsäure. Sd. 176—177°₁₉ (*Am.* 30, 239 *C.* 1903 [2] 934).
25) Triäthylester d. Säure C₉H₁₄O₆. Sd. 195—205°₁₀ (*Bl.* [3] 29, 1045 *C.* 1903 [2] 1424).
26) Triacetat d. δζη-Triox-βδ-Dimethylheptan (*C.* 1904 [2] 185).
- C₁₅H₂₆N₂** 27) Triisobutyrat d. αβγ-Trioxypentan. Sd. 282—284° (*C.* 1903 [1] 134).
*1) Spartein (Lupinidin). Sd. 325°₇₅₄. (2HCl, PtCl₄ + 2H₂O), (2HCl, AuCl₃), HJ, 2HJ, 2H₂SO₄, Pikrat (*C. r.* 137, 194 *C.* 1903 [2] 671; *Bl.* [3] 29, 1135 *C.* 1904 [1] 293; *C.* 1904 [1] 731; *B.* 37, 2354 *C.* 1904 [2] 455; *B.* 37, 2429 *C.* 1904 [2] 442; *Ar.* 242, 412 *C.* 1904 [2] 782; *B.* 37, 3238 *C.* 1904 [2] 1154).
- C₁₅H₂₆Cl₂** 6) Atractylendihydrochlorid. Fl. (*Ar.* 241, 28 *C.* 1903 [1] 712).
7) Guajendihydrochlorid. Fl. (*Ar.* 241, 44 *C.* 1903 [1] 713).
8) d-Cadinendihydrochlorid. Sm. 117—118° (*C. r.* 135, 1058 *C.* 1903 [1] 233).
9) Sesquiterpendihydrochlorid (aus Copaivabalsam). Sm. 116—117° (*Ar.* 242, 546 *C.* 1904 [2] 1500).
- C₁₅H₂₆Br₂** 2) Atractylendihydrobromid. Fl. (*Ar.* 241, 28 *C.* 1903 [1] 712).
- C₁₅H₂₆J₂** 2) Patschoulendihydrojodid. Fl. (*Ar.* 241, 40 *C.* 1903 [1] 712).
- C₁₅H₂₇Cl₃** 1) Sesquiterpentrihydrochlorid. Sm. 79—80° (*Soc.* 85, 416 *C.* 1904 [1] 1443).
- C₁₅H₂₈O** 2) Isocamylmenthon. Sd. 138—143°₁₀ (*C. r.* 138, 1140 *C.* 1904 [2] 106).
- C₁₅H₂₈O₂** 8) Valerianat d. l-Menthol. Sd. 141°₁₅ (D.R.P. 80711; *B.* 31, 364). — *III, 333.
- C₁₅H₂₈O₄** *2) Dimethylester d. Brassylsäure. Sm. 36°; Sd. 326° (*G.* 34 [2] 54 *C.* 1904 [2] 693).
- C₁₅H₂₈N₂** *1) Dihydrosparteïn (*C. r.* 137, 196 *C.* 1903 [2] 671).

- $C_{15}H_{30}O$ 6) *l*-Keto- η -Methyltetradekan. *Sd.* 143—144° (*Bl.* [3] 31, 1159 *C. 1904* [2] 1708).
- $C_{15}H_{30}O_2$ 7) Aldehyd d. Tetradekan- α -Carbonsäure. *Sd.* 185°₂₅ (*C. r.* 138, 699 *C. 1904* [1] 1066).
- $C_{15}H_{30}O_4$ 13) Säure (aus Hefefett). *Sm.* 56° (*H.* 38, 5 *C. 1903* [1] 1428).
C 65,7 — *H* 11,9 — *O* 23,3 — *M. G.* 274.
 1) α -Laurinat d. $\alpha\beta\gamma$ -Trioxypropan. *Sm.* 59°; *Sd.* 142°₀ (*B.* 36, 4341 *C. 1904* [1] 434).
- $C_{15}H_{30}Br_2$ 2) Spilanthendibromid. *Fl.* (*Ar.* 241, 279 *C. 1903* [2] 451).
- $C_{15}H_{32}O_2$ 2) Diamyläther d. $\alpha\epsilon$ -Dioxy-pentan. *Sd.* 276—277° (*C. r.* 138, 977 *C. 1904* [1] 1401; *C. r.* 138, 1610 *C. 1904* [2] 429).
- $C_{15}H_{32}O_4$ 4) ϵ -Oxy- $\beta\gamma$ -Dimethyl- ϵ -Isobutylundekan. *Sd.* 126—129°₁₅ (*C. r.* 138, 154 *C. 1904* [1] 577).
- $C_{15}H_{33}N$ *2) Triisocamylamin. Salze siehe (*C. r.* 135, 903 *C. 1903* [1] 132).

— 15 III —

- $C_{15}H_9O_6Br_8$ 1) Acetat d. Verbindung $C_{15}H_4O_5Br_8$. *Sm.* 249° (*B.* 36, 455 *C. 1903* [1] 574; *Am.* 31, 100 *C. 1904* [1] 802).
- $C_{15}H_8O_6Br_4$ *2) Tetrabromyricetin (*Soc.* 85, 62 *C. 1904* [1] 381, 729).
 $C_{15}H_8O_2N_2$ *C* 72,6 — *H* 3,2 — *O* 12,9 — *N* 11,3 — *M. G.* 248.
- $C_{15}H_8O_4Cl_2$ 1) Lakton d. 3-Oxy-2-Phenyl-1,4-Benzdiazin-2'-Carbonsäure. *Sm.* 201—203° (*G.* 34 [1] 498 *C. 1904* [2] 458).
- $C_{15}H_8O_4Br_6$ 2) 5,6-Dioxy-2-Keto-1-[β -Dichlorbenzyliden]-1,2-Dihydrobenzofuran. *Sm.* 210° u. *Zers.* (*B.* 29, 2434). — *III, 532.
- $C_{15}H_8O_4Br_6$ 1) α -Acetat d. 2,3,5,2',3',5'-Hexabrom- $\alpha,4,4'$ -Trioxydiphenylmethan. *Sm.* 208° (u. 225—226°) (*A.* 330, 79 *C. 1904* [1] 1148).
- $C_{15}H_9ON_3$ 2) Verbindung (aus d. Lakton $C_{15}H_8O_2N_2$). *Sm.* 266° (2HCl, PtCl₄) (*G.* 34 [1] 499 *C. 1904* [2] 458).
- $C_{15}H_9O_3N$ *1) 1-Benzoyl-2,3-Diketo-2,3-Dihydroindol. *Sm.* 206° (*B.* 36, 2764 *C. 1903* [2] 835).
- $C_{15}H_9O_3N$ 16) Benzoat d. 1,2-Phthalylhydroxylamin (*C.* 1899 [2] 245). — *II, 1058.
- $C_{15}H_9O_3Cl$ 1) 2-Keto-5,6-Dioxy-1-[2-Chlorbenzyliden]-1,2-Dihydrobenzofuran. *Sm.* 253° (*B.* 37, 825 *C. 1904* [1] 1152).
- $C_{15}H_9O_3N$ 3) $\alpha\beta\gamma$ -Triketo- α -Phenyl- γ -[4-Nitrophenyl]propan. *Sm.* 98—99° (*B.* 37, 1532 *C. 1904* [1] 1609).
- $C_{15}H_9O_5N_3$ *C* 57,9 — *H* 2,9 — *O* 25,7 — *N* 13,5 — *M. G.* 311.
 1) 4-Nitro-5-Phenyl-3-[4-Nitrophenyl]isoxazol. *Sm.* 199° (*A.* 328, 224 *C. 1903* [2] 998).
- $C_{15}H_9O_6N$ 2) 2-Methyläther d. 4-Nitro-1,2-Dioxy-9,10-Anthrachinon. *Sm.* 280 bis 282° (*D. R. P.* 150322 *C. 1904* [1] 1043).
- 3) 2-Keto-5,6-Dioxy-1-[2-Nitrobenzyliden]-1,2-Dihydrobenzofuran. *Sm.* 278° (*B.* 37, 824 *C. 1904* [1] 1152).
- 4) 2-Keto-5,6-Dioxy-1-[3-Nitrobenzyliden]-1,2-Dihydrobenzofuran. *Sm.* 274° (219—221°) (*B.* 29, 2434; *B.* 37, 824 *C. 1904* [1] 1151). — *III, 532.
- 5) 2-Keto-5,6-Dioxy-1-[4-Nitrobenzyliden]-1,2-Dihydrobenzofuran. *Sm.* noch nicht bei 360° (*B.* 37, 823 *C. 1904* [1] 1151).
- $C_{15}H_9O_7N_3$ *C* 52,5 — *H* 2,6 — *O* 32,6 — *N* 12,2 — *M. G.* 343.
 1) γ -Keto- γ -[3,5-Dinitrophenyl]- α -[3-Nitrophenyl]propen. *Sm.* 226° (*J. pr.* [2] 69, 470 *C. 1904* [2] 596).
- $C_{15}H_9O_{14}N_7$ *C* 35,2 — *H* 1,8 — *O* 43,8 — *N* 19,2 — *M. G.* 511.
 1) Äthyläther-2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenyl-imidodioxymethan. *Sm.* 222° (*Soc.* 85, 651 *C. 1904* [2] 310).
- $C_{15}H_{10}ON_4$ 2) s-Di[3-Cyanphenyl]harnstoff. *Sm.* 198—199° (*C. 1904* [2] 102).
- $C_{15}H_{10}O_2N_2$ 20) Dibenzoyldiazomethan. *Sm.* 114° u. *Zers.* (*B.* 37, 2526 *C. 1904* [2] 335).
- 21) 6-Phenylazo-1,2-Benzpyron. *Sm.* 158° (*B.* 37, 348 *C. 1904* [1] 662).
- 22) 4,5-Diketo-1,3-Diphenyl-4,5-Dihydropyrazol. *Sm.* 165°. + C_2H_6O , + $NaHSO_3$ (*B.* 36, 1134 *C. 1903* [1] 1253).
- $C_{15}H_{10}O_3N_2$ 19) 3-[4-Nitrophenyl]-5-Phenylisoxazol. *Sm.* 221° (*B.* 37, 1151 *C. 1904* [1] 1267).
- 20) 3-Oxy-2-Phenyl-1,4-Benzdiazin-2'-Carbonsäure. *Sm.* 232° u. *Zers.* NH_4 , Ba + $10H_2O$, o-Phenylendiaminsalz (*G.* 34 [1] 494 *C. 1904* [2] 458).

- $C_{15}H_{10}O_3Br_2$ 3) 1,2-Dibrom-2-Acetyl-3,4- β -Naphtopyran. Sm. 213° (B. 36, 1974 C. 1903 [2] 377).
- $C_{15}H_{10}O_3Br_6$ 2) α -Aethyläther d. 2,3,5,2',3',5'-Hexabrom- α ,4,4'-Trioxydiphenylmethan. Sm. 189—190° (A. 330, 78 C. 1904 [1] 1148).
- $C_{15}H_{10}O_4N_2$ *1) 2-Nitrobenzylimid d. Benzol-1,2-Dicarbonsäure (B. 36, 807 Anm. C. 1903 [1] 978).
- *9) 4-Methylphenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 152 bis 153° (C. 1903 [2] 431).
- 11) 5-Nitro-1-Methylamido-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 750).
- 12) 8-Nitro-1-Methylamido-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 750).
- 13) 3-Nitro-4-Methylphenylimid d. Benzolcarbonsäure. Sm. 225° (D.R.P. 141893 C. 1903 [1] 1325).
- $C_{15}H_{10}O_4N_4$ C 58,1 — H 3,2 — O 20,6 — N 18,1 — M. G. 310.
- 1) 6-[4-Nitrophenylazo]amido-1,2-Benzpyron. Zers. 218—225° (Soc. 85, 1234 C. 1904 [2] 1124).
- $C_{15}H_{10}O_4Cl_4$ 1) α -Methyläther d. α -Oxy- β -Keto- α - β -Di[3,5-Dichlor-4-Oxyphenyl]-äthan. Sm. 155—156° (A. 325, 59 C. 1903 [1] 462).
- $C_{15}H_{10}O_5N_2$ 4) α -Nitro- γ -Keto- γ -Phenyl- α -[4-Nitrophenyl]propen. Sm. 164° (A. 328, 233 C. 1903 [2] 999).
- 5) β -Oximido- α - γ -Diketo- α -Phenyl- γ -[4-Nitrophenyl]propan. Sm. 135° (B. 37, 1534 C. 1904 [1] 1609).
- $C_{15}H_{10}O_5N_4$ C 55,2 — H 3,1 — O 24,5 — N 17,2 — M. G. 326.
- 1) 5-Keto-1-Phenyl-3-[3,5-Dinitrophenyl]-4,5-Dihydropyrazol. Sm. 227° (J. pr. [2] 69, 464 C. 1904 [2] 595).
- $C_{15}H_{10}O_6S$ 1) 1-Oxy-9,10-Anthrachinon-1-Methyläther-6-Sulfonsäure. Na (D.R.P. 145188 C. 1903 [2] 1037).
- 2) 1-Oxy-9,10-Anthrachinon-1-Methyläther-7-Sulfonsäure (D.R.P. 145188 C. 1903 [2] 1038).
- $C_{15}H_{11}ON$ 41) Nitril d. α -Phenyl- β -[2-Oxyphenyl]akrylsäure. Sm. 104° (B. 37, 3165 C. 1904 [2] 983).
- $C_{15}H_{11}ON_2$ *3) 3-Oxy-5,6-Diphenyl-1,2,4-Triazin. Sm. 223° (B. 36, 3190 C. 1903 [2] 939).
- *7) Nitril d. Phenylazobenzoylessigsäure. Sm. 135—136° (B. 37, 2207 C. 1904 [2] 323).
- 10) 3-Benzylidenamido-4-Keto-3,4-Dihydro-1,3-Benzdiazin. Sm. 129° (J. pr. [2] 69, 101 C. 1904 [1] 730).
- $C_{15}H_{11}OCl$ 2) 1-Chlor-4-Methyl-2-Phenylbenzofuran. Sm. 66,5°; Sd. 194°₁₆ (B. 36, 4001 C. 1904 [1] 174).
- $C_{15}H_{11}O_2N$ *26) 4-Oxy-1-Keto-3-Phenyl-1,2-Dihydroisochinolin. Sm. 255—257° (B. 37, 1689 C. 1904 [1] 1524).
- 31) 1-Methylamido-9,10-Anthrachinon. Sm. 167° (D.R.P. 144634 C. 1903 [2] 750; D.R.P. 156056 C. 1904 [2] 1631).
- 32) 2-Methylamido-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 750).
- $C_{15}H_{11}O_2N_3$ 20) 3-[4-Nitrophenyl]-5-Phenylpyrazol. Sm. oberh. 250° (B. 37, 1152 C. 1904 [1] 1267).
- 21) 4-Oximido-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. 200° (B. 36, 1135 C. 1903 [1] 1254).
- 22) 2-[β -2-Nitrophenyläthenyl]benzimidazol. Sm. 215° (C. 1904 [1] 102).
- 23) 2-[β -3-Nitrophenyläthenyl]benzimidazol. Zers. bei 220°. HCl (C. 1904 [1] 103).
- 24) 2-[β -4-Nitrophenyläthenyl]benzimidazol. Sm. 269—270° u. Zers. (C. 1904 [1] 103).
- 25) 3-[2-Oxybenzyliden]amido-4-Keto-3,4-Dihydro-1,3-Benzdiazin. Sm. 205° (J. pr. [2] 69, 101 C. 1904 [1] 730).
- 26) 1,5-Diphenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 164—165°. Na + 3 1/2 H₂O, Ba + 5 H₂O, Cu + 1 1/2 H₂O (B. 35, 4047 C. 1903 [1] 169).
- 27) Nitril d. 2-Keto-6-Oxy-4-[β -Phenyläthyl]-2,5-Dihydropyridin-3,5-Dicarbonsäure (Hydrocinnamylidicyanglutakonimid). NH₄ (C. 1903 [2] 714).
- 28) Benzoat d. 5-Oxy-1-Phenyl-1,2,3-Triazol. Sm. 141—142° (A. 335, 83 C. 1904 [2] 1231).
- 29) s-Phenyl-3-Cyanphenylamid d. Oxalsäure. Sm. 205—206° (C. 1904 [2] 102).

- $C_{15}H_{11}O_2Br_3$ 2) Acetat d. 3,5,4'-Tribrom-4-Oxydiphenylmethan. Sm. 105° (A. 334, 376 C. 1904 [2] 1051).
- $C_{15}H_{11}O_3N$ *2) β -Oximido- $\alpha\gamma$ -Diketo- $\alpha\gamma$ -Diphenylpropan. Sm. 143—144° (B. 37, 1531 C. 1904 [1] 1608).
- *18) γ -Keto- γ -Phenyl- α -[4-Nitrophenyl]propen. Sm. 162,5° (B. 37, 1149 C. 1904 [1] 1267).
- 21) β -Nitro- γ -Keto- $\alpha\gamma$ -Diphenylpropen. Sm. 90° (A. 328, 236 C. 1903 [2] 999).
- 22) γ -Keto- γ -Phenyl- α -[3-Nitrophenyl]propen. Sm. 145° (Soc. 83, 1377 C. 1904 [1] 164, 450).
- 23) 4-Methylamido-1-Oxy-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 750; D.R.P. 154353 C. 1904 [2] 1013).
- 24) 3-Oximido-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 158—159° u. Zers. (B. 37, 2819 C. 1904 [2] 712).
- 25) Benzoat d. 3-Oxy-2-Keto-2,3-Dihydroindol. Sm. 134° (B. 37, 947 C. 1904 [1] 1217).
- 26) 4-Methoxyphenylimid d. Benzol-1,2-Dicarbonsäure (2 isom. Formen). Sm. 162° (B. 36, 1000 C. 1903 [1] 1131).
- $C_{15}H_{11}O_3Br$ 3) p-Brom-8-Oxy-5,7-Dimethylfluoron. Zers. bei 170—180° (M. 25, 328 C. 1904 [1] 1495).
- $C_{15}H_{11}O_4N$ 11) 4-Nitrodibenzoylmethan. Sm. 160° (B. 37, 1151 C. 1904 [1] 1267).
- 12) 2-Methyläther d. 4-Amido-1,2-Dioxy-9,10-Anthrachinon (D.R.P. 150322 C. 1904 [1] 1043).
- 13) α -Oximido- β -Keto- $\alpha\beta$ -Diphenyläthan- β^2 -Carbonsäure? Sm. 166° (B. 23, 1345). — *II, 1098.
- 14) α -Phenylimido-2-Carboxyphenylessigsäure. 2 Anilinsalz (D.R.P. 97241 C. 1898 [2] 524). — *II, 1129.
- $C_{15}H_{11}O_4N_3$ 4) Benzyläther d. Nitroisatinoxim. Sm. 234—235° (B. 35, 4337 C. 1903 [1] 293).
- 5) Nitril d. 2,6-Diketo-4-[3,4-Dioxyphenyl]-1,2,3,6-Tetrahydropyridin-3,4-Dimethyläther-3,5-Dicarbonsäure. $NH_4 + 2\frac{1}{2}H_2O$ (C. 1904 [2] 903).
- $C_{15}H_{11}O_5N$ 9) Äthylester d. 2,4,9-Triketo-2,3,4,9-Tetrahydro- $\beta\beta$ -Naphtindol-3-Carbonsäure. Sm. 275° u. Zers. Cu (E. Hoyer, Dissert., Berlin 1901).
- 10) Acetat d. 4-Nitro-4'-Oxydiphenylketon. Sm. 131° (B. 36, 3898 C. 1904 [1] 94).
- $C_{15}H_{11}O_6N$ 5) $\beta\beta$ -Dioxy- $\alpha\gamma$ -Diketo- α -Phenyl- γ -[4-Nitrophenyl]propan. Sm. 100° (B. 37, 1533 C. 1904 [1] 1609).
- 6) Aldehyd d. 5-Nitro-3-Benzoyl-4-Methoxybenzol-1-Carbonsäure. Sm. 120—121° (B. 35, 4398 C. 1903 [1] 341).
- $C_{15}H_{11}O_6N_3$ 2) γ -Oximido- β -Nitro- α -Keto- γ -[4-Nitrophenyl]- α -Phenylpropan. Sm. 136—137° u. Zers. $+ \frac{1}{2}C_6H_6$ (A. 328, 228 C. 1903 [2] 998).
- $C_{15}H_{11}N_2Cl$ 3) Nitril d. β -Imido- α -[4-Chlorphenyl]- β -Phenylpropionsäure. Sm. 174° (J. pr. [2] 67, 388 C. 1903 [1] 1357).
- $C_{15}H_{12}ON_2$ 41) 2-[4-Amidobenzyliden]-2,3-Dihydroindol (C. 1903 [1] 34).
- 42) 3-[4-Amidophenyl]-5-Phenylisoxazol. Sm. 155° (A. 328, 234 C. 1903 [2] 999).
- 43) 4-Keto-2-Benzyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 242° (J. pr. [2] 69, 20 C. 1904 [1] 640).
- $C_{15}H_{12}ON_4$ 8) Verbindung (aus 4,5-Diketo-1,3-Diphenyl-4,5-Dihydropyrazol). Sm. 98—101° (B. 36, 1136 C. 1903 [1] 1254).
- $C_{15}H_{12}O_2N_2$ 38) 5-Amido-1-Methylamido-9,10-Anthrachinon (B. 37, 72 C. 1904 [1] 666).
- 39) 8-Amido-1-Methylamido-9,10-Anthrachinon (B. 37, 72 C. 1904 [1] 666).
- 40) 4-Oxy-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. 200—208° (B. 36, 1136 C. 1903 [1] 1254).
- 41) Benzyläther d. Isatinoxim. Sm. 168,5—169° (B. 35, 4336 C. 1903 [1] 293).
- 42) Azobenzol-4-Akrylsäure. Sm. 245° u. Zers. (C. r. 135, 1117 C. 1903 [1] 286).
- 43) Methylester d. 2-Phenylindazol-2'-Carbonsäure. Sm. 73° (Bl. [3] 31, 875 C. 1904 [2] 661).

- $C_{16}H_{12}O_2Br_2$ 4) Dibromoxydimethyldiphenylketon ($CH_3 : CH_3 : OH = 1 : 3 : 4$) (*G.* 33 [2] 64 *C.* 1903 [2] 996).
- 5) Acetat d. 4,4'-Dibrom- α -Oxydiphenylmethan. Sm. 70—72° (*Am.* 30, 456 *C.* 1904 [1] 377).
- 6) Acetat d. 3,5-Dibrom-4-Oxydiphenylmethan. Sm. 53° (*A.* 334, 375 *C.* 1904 [2] 1051).
- $C_{15}H_{12}O_2Br_4$ 1) Dimethyläther d. 3,5,3',5'-Tetrabrom-4,4'-Dioxydiphenylmethan. Sm. 150—151° (*B.* 36, 1886 *C.* 1903 [2] 291).
- $C_{15}H_{12}O_3N_2$ *1) s-Dibenzoylharnstoff. Sm. 208—209° (*B.* 36, 3220 *C.* 1903 [2] 1056).
- 14) α -Amido- γ -Keto- γ -Phenyl- α -[4-Nitrophenyl]propen. Sm. 141° (*B.* 37, 1150 *C.* 1904 [1] 1267; *Soc.* 85, 1173 *C.* 1904 [2] 1216).
- 15) $\alpha\gamma$ -Dioximido- β -Keto- $\alpha\gamma$ -Diphenylpropan. Sm. 133,5° (*B.* 37, 1145 *C.* 1904 [1] 1266).
- 16) 4,4-Dioxy-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. 82° (*B.* 36, 1134 *C.* 1903 [1] 1254).
- 17) 4-Oxyazobenzol-2-Akrylsäure. Sm. 168° (*B.* 37, 4128 *C.* 1904 [2] 1735).
- 18) 4-Oxyazobenzol-3-Akrylsäure. Sm. 206° u. Zers. (*B.* 37, 4126 *C.* 1904 [2] 1735).
- $C_{15}H_{12}O_3Br_2$ 4) α -Acetat d. 3,5-Dibrom- α ,4-Dioxydiphenylmethan. Sm. 115° (*A.* 334, 382 *C.* 1904 [2] 1052).
- $C_{15}H_{12}O_4N_4$ 3) 6-Nitro-2-Methyl-3-[4-Nitrophenyl]-3,4-Dihydro-1,3-Benzodiazin. Sm. 188—191°. HCl, HNO₃, H₂SO₄, Essigsulfons. Salz (*B.* 36, 3118 *C.* 1903 [2] 1132).
- $C_{15}H_{12}O_5N_2$ 9) Nitrit d. β -Nitro- γ -Keto- α -Oxy- $\alpha\gamma$ -Diphenylpropan. Fl. (*A.* 328, 236 *C.* 1903 [2] 999).
- $C_{15}H_{12}O_7N_2$ 5) Dimethyläther d. 3,3'-Dinitro-4,4'-Dioxydiphenylketon. Sm. 205° (*G.* 34 [1] 384 *C.* 1904 [2] 111).
- $C_{15}H_{12}O_7N_6$ 2) s-Di[3-Nitrophenylamidoformyl]harnstoff. Sm. 142° u. Zers. (*Soc.* 81, 1569 *C.* 1903 [1] 157).
- $C_{15}H_{12}O_{10}N_2$ 1) C 47,4 — H 3,1 — O 42,1 — N 7,4 — M. G. 380.
- $\beta\beta$ -Di[β -Dinitro-4-Oxyphenyl]propan. Sm. 231—232° (*C.* 1904 [2] 1737).
- $C_{15}H_{12}NCl$ 3) Chlor-1-Naphtylat d. Pyridin. + FeCl₃ (*J. pr.* [2] 69, 129 *C.* 1904 [1] 815).
- 4) Chlor-2-Naphtylat d. Pyridin. + FeCl₃, 2 + PtCl₄, + AuCl₃ (*J. pr.* [2] 69, 127 *C.* 1904 [1] 815).
- $C_{15}H_{12}NJ$ 1) Jod-2-Naphtylat d. Pyridin. Sm. 201° (*J. pr.* [2] 69, 128 *C.* 1904 [1] 815).
- $C_{15}H_{12}N_2S_2$ 2) 2-Phenyl-3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol-2,5-Sulfid. Sm. 205—206° u. Zers. (*J. pr.* [2] 67, 257 *C.* 1903 [1] 1265).
- $C_{15}H_{18}ON$ 27) α -Amido- γ -Keto- $\alpha\gamma$ -Diphenylpropan. Sm. 97° (*Soc.* 85, 1181 *C.* 1904 [2] 1216; *Soc.* 85, 1323 *C.* 1904 [2] 1645).
- 28) γ -Keto- γ -[4-Amidophenyl]- α -Phenylpropan. HCl (*B.* 37, 392 *C.* 1904 [1] 657).
- 29) Methyl-4-Benzylidenamidophenylketon. Sm. 96° (*B.* 37, 392 *C.* 1904 [1] 657).
- $C_{15}H_{18}ON_3$ 32) 4-Amido-5-Phenyl-3-[4-Amidophenyl]isoxazol + $\frac{1}{2}$ H₂O. Sm. 118° (*A.* 328, 225 *C.* 1903 [2] 998).
- 33) Methyläther d. 5-Oxy-1,4-Diphenyl-1,2,3-Triazol. Sm. 126° (*A.* 335, 105 *C.* 1904 [2] 1232).
- 34) Amid d. Azobenzol-4-Akrylsäure. Sm. 228—229° (*C. r.* 135, 1117 *C.* 1903 [1] 286).
- $C_{15}H_{18}ON_6$ 4) 2-[2-Semicarbazonomethylphenyl]indazol. Sm. 252—253° (*Bl.* [3] 31, 872 *C.* 1904 [2] 661).
- $C_{15}H_{13}OCl$ *1) γ -Chlor- α -Keto- $\alpha\gamma$ -Diphenylpropan. Sm. 120° u. Zers. (*B.* 36, 1479 *C.* 1903 [1] 1349).
- 4) Methyläther d. β -Chlor- α -Phenyl- α -[2-Oxyphenyl]äthen. Sm. 71,5° (*B.* 37, 4165 *C.* 1904 [2] 1643).
- 5) Methyläther d. isom. β -Chlor- α -Phenyl- α -[2-Oxyphenyl]äthen. Sm. 50,5° (*B.* 37, 4166 *C.* 1904 [2] 1643).
- 6) Methyläther d. β -Chlor- α -Phenyl- α -[4-Oxyphenyl]äthen. Sm. 59 bis 60° (*B.* 37, 4167 *C.* 1904 [2] 1643).

- C₁₅H₁₃OCl** 7) Methyläther d. isom. β -Chlor- α -Phenyl- α -[4-Oxyphenyl]äthen. Sm. 26—28°; Sd. 210—213° (*B.* 37, 4167 *C.* 1904 [2] 1643).
- C₁₅H₁₃OBr** 5) Methyläther d. β -Brom- α -Phenyl- α -[2-Oxyphenyl]äthen. Sm. 78,5° (*B.* 37, 4164 *C.* 1904 [2] 1643).
- 6) Methyläther d. isom. β -Brom- α -Phenyl- α -[2-Oxyphenyl]äthen. Sm. 56,5° (*B.* 37, 4165 *C.* 1904 [2] 1643).
- 7) Methyläther d. β -Brom- α -Phenyl- α -[4-Oxyphenyl]äthen. Sm. 82,5° (*B.* 37, 4166 *C.* 1904 [2] 1643).
- 8) Methyläther d. isom. β -Brom- α -Phenyl- α -[4-Oxyphenyl]äthen. Sm. 52° (*B.* 37, 4166 *C.* 1904 [2] 1643).
- C₁₅H₁₃O₂N** *6) β -Oximido- α -Keto- α - γ -Diphenylpropan. Sm. 126° (*B.* 36, 3018 *C.* 1903 [2] 1001).
- *31) Benzoylamid d. Phenylessigsäure. Sm. 129—130° (*C.* 1903 [2] 831).
- 42) Methyl-4-[2-Oxybenzyliden]amidophenylketon. Sm. 116° (*B.* 37, 395 *C.* 1904 [1] 657).
- 43) Methyl-4-[4-Oxybenzyliden]amidophenylketon. Sm. 209° (*B.* 37, 658 *C.* 1904 [1] 658).
- 44) Methyl-4-Benzoylamidophenylketon. Sm. 205° (*C.* 1903 [1] 832).
- 45) 2-Oxy-1-[α -Amidofural]naphtalin. Sm. 115°. HCl (*G.* 33 [1] 13 *C.* 1903 [1] 925).
- 46) Methyläther d. 5-Oxy-3-Methyl-1-Phenylbenzoxazol. Sm. 98° (*B.* 37, 3110 *C.* 1904 [2] 994).
- 47) Äthyläther d. 5-Oxy-1-Phenylbenzoxazol. Sm. 64—66° (*J. pr.* [2] 70, 328 *C.* 1904 [2] 1541).
- 48) Aldehyd d. 2-Methylbenzoylamidobenzol-1-Carbonsäure. Sm. 78,5 bis 79° (*B.* 37, 983 *C.* 1904 [1] 1079).
- 49) Benzoat d. γ -Oxy- β -[2-Pyridyl]propen. Sm. 60—61° (*B.* 37, 745 *C.* 1904 [1] 1090).
- 50) Benzoylamid d. 1-Methylbenzol-4-Carbonsäure. Sm. 112—113° (*C.* 1903 [2] 831).
- C₁₅H₁₃O₂N₃** 24) Dibenzoylguanidin. Sm. 215° (*Ar.* 241, 478 *C.* 1903 [2] 989).
- 25) 2-[α -Semicarbazonoäthyl]- β -Naphtofuran. Sm. 249° (*B.* 36, 2867 *C.* 1903 [2] 832).
- 26) 6-Cinnamylidenhydrazidopyridin-3-Carbonsäure. Sm. 263—264° (*B.* 36, 1114 *C.* 1903 [1] 1184).
- 27) 1-[2,4-Dimethylphenyl]-1,2,3-Benzotriazol-5-Carbonsäure. Sm. 230° (*A.* 332, 91 *C.* 1904 [1] 1570).
- C₁₅H₁₃O₃N** *13) α -Benzoylamido- α -Phenylessigsäure. Ba (*B.* 37, 2961 *C.* 1904 [2] 993).
- 37) β -Oximido- $\alpha\beta$ -Diphenylpropionsäure. Sm. 138—139°. Ag (*J. pr.* [2] 55, 316). — *II, 1003.
- 38) Äthylester d. Naphtostyryl-N-Methylcarbonsäure. Sm. 86—87° (*B.* 35, 4221 *C.* 1903 [1] 166).
- 39) Phenylamid d. 2-Acetoxybenzol-1-Carbonsäure. Sm. 136—137° (*B.* 37, 3976 *C.* 1904 [2] 1605).
- C₁₅H₁₃O₃N₃** 15) Di[Phenylamid] d. Oximidomalonsäure. 2 isom. Formen. Sm. 141°. K, Ag (*Soc.* 83, 34 *C.* 1903 [1] 73, 441).
- 16) α -Phenylhydrazid d. Phenylimidoessigsäure-2-Carbonsäure. Sm. 243° u. Zers. K, Ca + 8 1/2 H₂O, Ba (*A.* 332, 232 *C.* 1904 [2] 38).
- C₁₅H₁₃O₄N** *20) Äthyläther d. 2-Nitro-4'-Oxydiphenylketon. Sm. 115° (*B.* 36, 3891 *C.* 1904 [1] 93).
- *21) Äthyläther d. 3-Nitro-4'-Oxydiphenylketon. Sm. 79—81° (*B.* 36, 3891 *C.* 1904 [1] 93).
- *22) Äthyläther d. 4-Nitro-4'-Oxydiphenylketon. Sm. 112° (*B.* 36, 3896 *C.* 1904 [1] 93).
- 31) 2-[4-Oxy-3-Methoxybenzyliden]amidobenzol-1-Carbonsäure. Sm. 172—174° (*B.* 37, 596 *C.* 1904 [1] 881).
- 32) r - α -[Phenylamidoformoxyl]phenylessigsäure. Sm. 146° (*Bl.* [3] 19, 775). — *II, 923.
- 33) 4-Methoxyphenylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 180 bis 185° (*B.* 36, 998 *C.* 1903 [1] 1131).
- C₁₅H₁₃O₄N₃** *23) Methyläther d. Benzoylimido-3-Nitrophenylamidooxymethan. Sm. 86—88° (*Ann.* 32, 364 *C.* 1904 [2] 1507).

- $C_{15}H_{13}O_4N_3$ 28) Methyläther d. Phenylamido-3-Nitrobenzoylimidooxymethan. Sm. 124° (C. 1904 [1] 1559).
 29) α -Acetyl- α -Phenyl- β -[5-Nitro-2-Oxybenzyliden]hydrazin. Sm. 165° (B. 37, 3930 C. 1904 [2] 1595).
 30) α -Acetyl- α -Phenyl- β -[3-Nitro-4-Oxybenzyliden]hydrazin. Sm. 193 bis 194° (B. 37, 3933 C. 1904 [2] 1596).
 31) s-Diphenylguanidin-2,2'-Dicarbonsäure + $\frac{1}{2}H_2O$. Sm. 201° u. Zers. (J. pr. [2] 69, 30 C. 1904 [1] 641).
 32) α -Phenyl- β -[3-Nitrobenzyliden]hydrazidoessigsäure. Sm. 196 bis 197° (B. 36, 3883 C. 1904 [1] 26).
 33) Acetat d. α -Phenyl- β -[5-Nitro-2-Oxybenzyliden]hydrazin. Sm. 191° (B. 37, 3929 C. 1904 [2] 1595).
 34) Acetat d. α -Phenyl- β -[6-Nitro-2-Oxybenzyliden]hydrazin. Sm. 128° (B. 37, 3932 C. 1904 [2] 1596).
 35) Acetat d. α -Phenyl- β -[3-Nitro-4-Oxybenzyliden]hydrazin. Sm. 134—135° (B. 37, 3932 C. 1904 [2] 1596).
 36) Di[Phenylamid] d. Nitromalonsäure. Sm. 141° (C. 1904 [1] 1555).
 $C_{15}H_{13}O_5N_3$ 10) Acetyl-2',4'-Dinitro-4-Methyldiphenylamin. Sm. 141—142° (B. 36, 32 C. 1903 [1] 520).
 $C_{15}H_{13}O_6N$ 8) 1-Methylester-3-[3-Oxyphenyl]esterd. 4-Oxybenzol-1-Carbonsäure-3-Amidoameisensäure. Sm. 161° (A. 325, 325 C. 1903 [1] 770).
 $C_{15}H_{13}O_6N_3$ 7) 4,6-Dinitroäthyldiphenylamin-2-Carbonsäure. Sm. 150—151°. K (G. 33 [2] 329 C. 1904 [1] 278).
 8) Acetat d. 4,6-Dinitro-4'-Oxy-3-Methyldiphenylamin. Sm. 146—147° (B. 37, 2093 C. 1904 [2] 33).
 $C_{15}H_{13}O_6N_5$ *2) 2,4,6-Trinitro-1-[4-Dimethylamidophenyl]imidomethylbenzol. Zers. bei 268°. + Nitrobenzol (B. 36, 960 C. 1903 [1] 969).
 $C_{15}H_{13}NS$ 5) Aethyläther d. 5-Merkaptoakridin. Sm. 65°. (2HCl, PtCl₄), Pikrat (J. pr. [2] 68, 76 C. 1903 [2] 445).
 $C_{15}H_{13}N_3S$ *2) Benzyläther d. α -Cyanimido- α -Phenylamido- α -Merkaptomethan. Sm. 182—183° (185—186°) (C. 1903 [2] 662; A. 331, 297 C. 1904 [2] 33).
 *5) Methyläther d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 103—104° (J. pr. [2] 67, 226 C. 1903 [1] 1261).
 6) 5-Methyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 253° (J. pr. [2] 67, 252 C. 1903 [1] 1265).
 $C_{15}H_{14}ON_2$ *41) Benzylidenhydrazid d. 1-Methylbenzol-2-Carbonsäure. Sm. 164° (J. pr. [2] 69, 370 C. 1904 [2] 534).
 *42) Benzylidenhydrazid d. 1-Methylbenzol-3-Carbonsäure. Sm. 139° (J. pr. [2] 69, 371 C. 1904 [2] 534).
 *43) Benzylidenhydrazid d. 1-Methylbenzol-4-Carbonsäure. Sm. 235° (J. pr. [2] 69, 371 C. 1904 [2] 534).
 50) α -Imido- α -Acetylphenylamido- α -Phenylmethan. Sm. 128—129° (C. 1903 [2] 831).
 51) α -Phenylimido- α -Acetylamido- α -Phenylmethan. Sm. 138—139° (C. 1903 [2] 831).
 52) Carbonyl-4,4'-Diamido-3,3'-Dimethylbiphenyl (o-Tolidinharnstoff). Sm. 370—373° (M. 25, 386 C. 1904 [2] 320).
 53) Methyläther d. 2-[2-Oxymethylphenyl]indazol (C. r. 137, 523 C. 1903 [2] 1061).
 54) Nitril d. α -Phenylamido- α -[4-Oxyphenyl]essigmethyläthersäure. Sm. 104—105° (B. 37, 4085 C. 1904 [2] 1723).
 $C_{15}H_{14}OCl_2$ 1) Methyläther d. $\alpha\beta$ -Dichlor- α -Phenyl- β -[2-Oxyphenyl]äthan. Sm. 90° (B. 37, 4165 C. 1904 [2] 1643).
 $C_{15}H_{14}OBr_2$ *1) Methyläther d. $\alpha\beta$ -Dibrom- α -Phenyl- β -[4-Oxyphenyl]äthan. Sm. 177° (A. 333, 270 C. 1904 [2] 1392).
 2) Methyläther d. 4,4'-Dibrom- α -Oxydiphenylmethan. Sd. 228°, (Am. 30, 461 C. 1904 [1] 377).
 $C_{15}H_{14}O_2N_2$ *6) Di[Benzoylamido]methan. Sm. 218° (B. 37, 4097 C. 1904 [2] 1726).
 *59) 2-Oxybenzylidenhydrazid d. 1-Methylbenzol-2-Carbonsäure. Sm. 166° (J. pr. [2] 69, 370 C. 1904 [2] 534).
 *60) 2-Oxybenzylidenhydrazid d. 1-Methylbenzol-4-Carbonsäure. Sm. 197° (J. pr. [2] 69, 371 C. 1904 [2] 534).
 74) Methyläther d. α -Benzoylamido- α -Phenylimido- α -Oxymethan. Ag (C. 1904 [1] 1559).

- $C_{15}H_{14}O_2N_2$ 75) α -Acetyl- α -Phenyl- β -(4-Oxybenzyliden)hydrazin. Sm. 182° (B. 36, 3974 C. 1904 [1] 163).
- 76) α -Phenyl- β -Benzylidenhydrazidoessigsäure. Sm. 165—166° (B. 36, 3883 C. 1904 [1] 26).
- 77) Methylester d. Phenylimidophenylamidoessigsäure. Sm. 65—66° (2 HCl, PtCl₄) (Soc. 85, 991 C. 1904 [2] 831).
- 78) Acetat d. 2-Oxymethylazobenzol. Sm. 39—40° (C. r. 138, 1427 C. 1904 [2] 229; Bl. [3] 31, 868 C. 1904 [2] 661).
- 79) s-Phenyl-4-Methylphenylamid d. Oxalsäure. Sm. 206° (A. 332, 267 C. 1904 [2] 700).
- $C_{15}H_{14}O_2N_4$ 13) Phenylhydrazid-Benzylidenhydrazid d. Oxalsäure. Sm. 249—250° (B. 37, 2426 C. 1904 [2] 341).
- $C_{15}H_{14}O_2Br_2$ 1) 3,4-Methylenäther d. $\alpha\beta$ -Dibrom- α -Phenyl- β -(3,4-Dioxyphenyl)-äthan. Sm. 188° (B. 37, 1432 C. 1904 [1] 1351).
- 2) α -Äthyläther d. 3,5-Dibrom- α ,4-Dioxydiphenylmethan. Sm. 85—86° (A. 334, 382 C. 1904 [2] 1052).
- $C_{15}H_{14}O_5N_2$ 61) 3-Nitro-4'-Dimethylamidodiphenylketon. Sm. 173° (D.R.P. 42853). — *III, 148.
- 62) Phenoxazinderivat (aus 2-Amido-3,5-Dioxy-1-Methylbenzol-5-Methyläther). Sm. 253° (256—260°). HCl, HBr (B. 30, 1107; J. pr. [2] 70, 366 C. 1904 [2] 1565). — *II, 583.
- 63) 4-Oxyazobenzol-2-Propionsäure. Sm. 146° (B. 37, 4130 C. 1904 [2] 1735).
- 64) 4-Oxyazobenzol-3-Propionsäure. Sm. 130° (B. 37, 4129 C. 1904 [2] 1735).
- 65) 6-Oxyazobenzol-3-Propionsäure. Sm. 140—141° (B. 37, 4131 C. 1904 [2] 1735).
- 66) 3-Nitro-2,4-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 236° (G. 33 [2] 281 C. 1904 [1] 265).
- 67) 5-Nitro-2,4-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 200° (G. 33 [2] 281 C. 1904 [1] 265).
- 68) Benzoat d. $\alpha\beta$ -Phenylnitrosamido- α -Oxyäthan. Fl. (A. 332, 210 C. 1904 [2] 211).
- 69) Methylester d. 2-Oxymethylazobenzol-2'-Carbonsäure (C. r. 138, 1277 C. 1904 [2] 120).
- 70) Phenylamid d. Phenylamidoformoxylessigsäure. Sm. 145—147° (Bl. [3] 29, 122 C. 1903 [1] 564).
- $C_{15}H_{14}O_3N_4$ *7) s-Di[Phenylamidoformyl]harnstoff. Sm. 211° (C. 1904 [2] 29).
- 10) 4,4'-Di[Methylnitrosamidophenyl]keton. Sm. 228—229° (B. 37, 2677 C. 1904 [2] 444).
- 11) 5-Nitro-2-Acetylamido-1-Phenylhydrazonmethylbenzol. Sm. 229° (M. 24, 97 C. 1903 [1] 921).
- 12) 6-Nitro-3-Acetylamido-1-Phenylhydrazonmethylbenzol. Sm. 247° (M. 24, 6 C. 1903 [1] 775).
- 13) 3-Nitro-4-Acetylamido-1-Phenylhydrazonmethylbenzol. Sm. 209° (M. 24, 91 C. 1903 [1] 921).
- 14) Phenylnitrosamid d. β -Phenylureidoessigsäure. Sm. 131° u. Zers. (J. pr. [2] 70, 250 C. 1904 [2] 1463).
- $C_{15}H_{14}O_4N_2$ *25) Di[Phenylamido]methan-2,2'-Dicarbonsäure. Sm. 150—158° u. Zers. (157°) (B. 36, 50 C. 1903 [1] 505; D.R.P. 138393 C. 1903 [1] 372).
- 29) 2'-Nitro-2,4-Dimethyldiphenylamin-4'-Carbonsäure. Sm. 213° (A. 332, 90 C. 1904 [1] 1570).
- 30) Di[Phenylamido]methan-3,3'-Dicarbonsäure. Sm. 119—129° (B. 36, 51 C. 1903 [1] 505).
- 31) Di[Phenylamido]methan-4,4'-Dicarbonsäure. Sm. 167—168° (B. 36, 52 C. 1903 [1] 505).
- 32) Äthylester d. Acetyldicyanbenzoylessigsäure. Sm. 111° (A. 332, 153 C. 1904 [2] 192).
- 33) 2-Phenylamidoformiat d. 2-Oximido-5-Oxy-1-Keto-1,2-Dihydrobenzol-5-Äthyläther (J. pr. [2] 70, 324 C. 1904 [2] 1541).
- $C_{15}H_{14}O_4S$ 4) Benzylidenacetophenonhydrosulfonsäure. K + 2½ H₂O (B. 37, 4049 C. 1904 [2] 1648).
- 5) β -Phenylsulfon- β -Phenylpropionsäure. Sm. 173°. Ba (Am. 31, 174 C. 1904 [1] 876).

- $C_{15}H_{14}O_5N_2$ 5) 1-Benzoylamido-2,5-Dimethylpyrrol-3,4-Dicarbonsäure. Sm. 231 bis 232° u. Zers. $K + \frac{1}{2}H_2O$ (B. 35, 4319 C. 1903 [1] 336).
 6) Dimethylester d. $\alpha\gamma$ -Dicyan- β -Oxy- β -Phenylpropan- $\alpha\gamma$ -Dicarbon-säure. Sm. 162° (Bl. [3] 31, 529 C. 1904 [1] 1554).
- $C_{15}H_{14}O_5N_4$ 12) 3,3'-Dinitro-4,4'-Di[Methylamido]diphenylketon. Sm. 212° (G. 34 [1] 386 C. 1904 [2] 111).
 13) 6-Nitro-2-Oxy-2-Methyl-3-[4-Nitrophenyl]-1,2,3,4-Tetrahydro-1,3-Benzodiazin. Sm. 243—246° (B. 35, 741 C. 1902 [1] 753; B. 36, 3120 C. 1903 [2] 1132).
- $C_{15}H_{14}O_5S$ 2) 4-Benzolsulfonat d. 3,4-Dioxybenzol-3-Aethyläther-1-Carbonsäure-aldehyd. Sm. 72° (D.R.P. 81352). — *III, 76.
 3) 4-[4-Methylbenzol]sulfonat d. 3,4-Dioxybenzol-3-Methyläther-1-Carbonsäurealdehyd. Sm. 115° (D.R.P. 80498). — *III, 76.
- $C_{15}H_{14}O_6N_2$ 2) $\beta\beta$ -Di[p-Nitro-4-Oxyphenyl]propan. Sm. 133°. Na_2 (C. 1904 [2] 1737).
 3) Dimethyläther d. 3,3'-Dinitro-4,4'-Dioxydiphenylmethan. Sm. 160° (D.R.P. 140690 C. 1903 [1] 1010).
- $C_{15}H_{14}NJ$ 9) 3,4-Dimethyldiphenyljodoniumcyanid. Sm. 104—108° (A. 327, 281 C. 1903 [2] 351).
- $C_{15}H_{14}N_2S$ 13) 2-Phenylimido-5-Phenyltetrahydrothiazol. Sm. 113,5—115°. Pikrat (B. 37, 2485 C. 1904 [2] 420).
 14) 1-[2-Methylphenyl]amido-4-Methylbenzthiazol. Sm. 136—137° (B. 36, 3129 C. 1903 [2] 1070).
 15) 1-[4-Methylphenyl]amido-5-Methylbenzthiazol. Sm. 162° (B. 36, 3131 C. 1903 [2] 1070).
- $C_{15}H_{15}ON$ *33) i- α -Benzoylamido- α -Phenyläthan. Sm. 120° (Soc. 83, 1152 C. 1903 [2] 1061).
 *76) Phenylbenzylamid d. Essigsäure. Sm. 58° (C. r. 139, 300 C. 1904 [2] 703).
 92) Methyläther d. α -Benzylimido- α -Oxy- α -Phenylmethan. Sd. 178 bis 180°, $_{11}$ (Soc. 83, 328 C. 1903 [1] 581, 876).
 93) anti- α -Oximido-2,4'-Dimethyldiphenylmethan. Sm. 122° (B. 36, 2026 C. 1903 [2] 376).
 94) anti- α -Oximido-3,4'-Dimethyldiphenylmethan. Sm. 118—119° (B. 36, 2027 C. 1903 [2] 376).
 95) syn- α -Oximido-3,4'-Dimethyldiphenylmethan. Sm. 143° (B. 36, 2027 C. 1903 [2] 376).
 96) 5-Keto-3,4-Dimethyl-2-[γ -Phenylallyliden]-2,5-Dihydropyrrol. Sm. 248° (A. 306, 246). — *II, 991.
 97) 4-Methylphenylamid d. 1-Methylbenzol-2-Carbonsäure. Sm. 144° (B. 36, 2027 C. 1903 [2] 376).
 98) Methylbenzylamid d. Benzolcarbonsäure. Sd. 213—214°, $_{11}$ (Soc. 83, 408 C. 1903 [1] 833).
 99) Methyl-2-Methylphenylamid d. Benzolcarbonsäure. Sm. 65—66° (Soc. 83, 408 C. 1903 [1] 833).
 100) Methyl-4-Methylphenylamid d. Benzolcarbonsäure. Sm. 46—48° (Soc. 83, 408 C. 1903 [1] 833).
- $C_{15}H_{15}ON_3$ *1) 4-Acetylamido-1-Phenylhydrazonmethylbenzol. Sm. 209° (M. 24, 89 C. 1903 [1] 921).
 *18) Phenylamid d. α -Phenylhydrazonpropionsäure. Sm. 174° (A. 335, 97 C. 1904 [2] 1232).
 27) α -Benzylidenamido- α -Methyl- β -Phenylharnstoff. Sm. 108° (B. 37, 2323, 2325 C. 1904 [2] 312).
 28) α -Benzylidenamido- α -Benzylharnstoff. Sm. 153—154° (B. 37, 2325 C. 1904 [2] 312).
 29) 3-Keto-4,5,6-Trimethyl-2-Phenyl-2,3-Dihydro-5,1,2-Benztriazol + $3H_2O$. Sm. 122° (144° wasserfrei) (B. 36, 518 C. 1903 [1] 649).
 30) α -Phenyläthylidenhydrazid d. 2-Amidobenzol-1-Carbonsäure. Sm. 165° (J. pr. [2] 69, 99 C. 1904 [1] 730).
- $C_{15}H_{15}O_2N$ *44) Benzylamid d. 4-Oxybenzolzomethyläther-1-Carbonsäure. Sm. 131° (B. 37, 4138 C. 1904 [2] 1714).
 64) 1-Aethyläther d. 4-[2-Oxybenzyliden]amido-1-Oxybenzol. Sm. 94° (90—91,5°) (D.R.P. 79814, 79857). — *III, 52.

- C₁₅H₁₅O₂N** 65) β -Benzoylamido- α -Oxy- α -Phenyläthan. Sm. 144—145,5° (B. 37, 2484 C. 1904 [2] 420).
 66) N-Benzoyl- β -Oxyäthylphenylamin. Sm. 142—146° (A. 332, 212 C. 1904 [2] 211).
 67) Benzot d. β -Phenylamido- α -Oxyäthan. Sm. 77°. HCl (A. 332, 209 C. 1904 [2] 211).
 68) Phenylamidoformiat d. 2-Oxymethyl-1-Methylbenzol. Sm. 79° (C. r. 137, 574 C. 1903 [2] 1117).
- C₁₅H₁₅O₂N₃** *3) α -Acetylamido- β -Diphenylharnstoff. Sm. 184° (B. 36, 1365 C. 1903 [1] 1341).
 *4) α -Acetylphenylamido- β -Phenylharnstoff. Sm. 192° (B. 36, 1369 C. 1903 [1] 1342).
 39) Phenylamid d. β -Phenylureidoessigsäure. Sm. 214° (J. pr. [2] 70, 249 C. 1904 [2] 1463).
 40) Phenylamid d. 4-Aethoxyphenylazoameisensäure. Sm. 139—140° (A. 334, 180, 184 C. 1904 [2] 834).
 41) Di[Phenylamid] d. Amidomalonsäure. Sm. 141—142° (C. 1904 [1] 1555).
- C₁₅H₁₅O₂N₅** 6) Amid d. s-Diphenylguanidin-2,2'-Dicarbonsäure + H₂O. Sm. oberh. 290° (wasserfrei). Pikrat (J. pr. [2] 69, 37 C. 1904 [1] 641).
- C₁₅H₁₅O₃N** *27) 3-Methyläther d. 6-Benzoylamido-3,5-Dioxy-1-Methylbenzol. Sm. 219—220° (B. 36, 891 C. 1903 [1] 966).
 32) Dimethyläther d. 2'-Amido-2,4-Dioxydiphenylketon. Sm. 128° (B. 35, 4280 C. 1903 [1] 333).
 33) 1-Aethyläther d. 4-Benzoylamido-1,3-Dioxybenzol. Sm. 187° (J. pr. [2] 70, 327 C. 1904 [2] 1541).
 34) 4-Methoxyphenylamid d. 4-Oxybenzylmethyläther-1-Carbonsäure. Sm. 202° (B. 36, 654 C. 1903 [1] 768).
 35) 4-Methoxyphenylimid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure (2 isom. Formen). Sm. 108° (B. 36, 1003 C. 1903 [1] 1132).
- C₁₅H₁₅O₃N₃** 11) Methyläther d. p-Nitro- α -Methyl- α -Phenyl- β -[4-Oxybenzyliden]-hydrazin. Sm. 159—159,5° (B. 36, 372 C. 1903 [1] 577).
 12) Methyläther d. α -Methyl- α -Phenyl- β -[α -Nitro-4-Oxybenzyliden]-hydrazin. Sm. 104,5—105,2° (B. 36, 363 C. 1903 [1] 577).
 13) $\alpha\gamma$ -Diphenylsemicarbazidoessigsäure. Sm. 203—204° u. Zers. (B. 36, 3886 C. 1904 [1] 27).
- C₁₅H₁₅O₄N₃** 9) Aethyl-2',4'-Dinitro-2-Methyldiphenylamin. Sm. 114° (J. pr. [2] 68, 258 C. 1903 [2] 1064).
 10) Aethyl-2',4'-Dinitro-4-Methyldiphenylamin. Sm. 120° (J. pr. [2] 68, 256 C. 1903 [2] 1064).
 11) p-Nitroäthylbenzyl-4-Nitrophenylamin. Sm. 71° (A. 334, 256 C. 1904 [2] 901).
 12) Dimethyläther d. 5-Nitro-3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 108—110° (B. 35, 4399 C. 1903 [1] 341).
- C₁₅H₁₅O₅N** 5) 2,3-Dioxyphenylester d. 4-Aethoxyphenylamidoameisensäure. Sm. 162° (B. 37, 110 C. 1904 [1] 584).
- C₁₅H₁₅O₆N** 4) Diäthylester d. Phtalylamidomalonsäure. Sm. 73,8—74°. Na (C. 1903 [2] 33).
- C₁₅H₁₅O₈N₅** 2) 4,6-Dinitro-5-Methylnitramido-2,4'-Dimethyldiphenylamin. Sm. 184° (J. pr. [2] 67, 525 C. 1903 [2] 239).
- C₁₅H₁₅O₉N** C 51,0 — H 4,2 — O 40,8 — N 4,0 — M. G. 353.
 1) α -[2-Carboxybenzoyl]amidobutan- $\alpha\alpha\delta$ -Tricarbonsäure (C. 1903 [2] 33).
- C₁₅H₁₅NBr₂** 3) α -DiBrom- α -[4-Methylphenyl]- β -[6-Methyl-2-Pyridyl]äthan. Sm. 154° (B. 36, 1684 C. 1903 [2] 46).
- C₁₅H₁₅NS₂** 3) Dibenzylamidodithioameisensäure. Dibenzylaminsalz (B. 37, 3236 C. 1904 [2] 1153).
- C₁₅H₁₅N₂Cl** 5) 5-Chlormethylat d. 3,8-Dimethyldiphenazon. 2 + ZnCl₂ (B. 37, 27 C. 1904 [1] 523).
- C₁₅H₁₅N₃S** 6) α -Benzylidenamido- α -Methyl- β -Phenylthioharnstoff. Sm. 132° (B. 37, 2322 C. 1904 [2] 311).
 7) α -Benzylidenamido- β -Methyl- α -Phenylthioharnstoff. Sm. 151—152° (B. 37, 2331 C. 1904 [2] 314).

- $C_{15}H_{15}N_3S_2$ 1) Methyläther d. α -Phenylimido- α -[β -Phenylthioureido]- α -Merkapto-methan. Sm. 101° (*Am.* 30, 176 *C.* 1903 [2] 872).
- $C_{15}H_{16}ON_2$ *7) s-Di[2-Methylphenyl]harnstoff. Sm. 250° (*M.* 25, 378 *C.* 1904 [2] 320).
 *8) s-Di[3-Methylphenyl]harnstoff. Sm. 221° (*M.* 25, 382 *C.* 1904 [2] 320).
 *38) Methyläther d. α -Phenylhydrazon- α -[2-Oxyphenyl]äthan. Sm. 114° (*B.* 36, 3589 *C.* 1903 [2] 1365).
- *45) Äthyläther d. 4'-Oxy-2-Methylazobenzol (*B.* 36, 3859 *C.* 1904 [1] 91).
 79) Äthylbenzyl-4-Nitrosophenylamin. Sm. 61—62° (*HCl* (*A.* 334, 238 *C.* 1904 [2] 900)).
 80) 4,4'-Di[Methylamidophenyl]keton. Sm. 130°. (2HCl, PtCl₄) (*B.* 37, 2677 *C.* 1904 [2] 443).
 81) β -Benzoyl- α -Äthyl- α -Phenylhydrazin. Sm. 168° (*C.* 1903 [1] 1128; *B.* 35, 4189 *C.* 1903 [1] 143).
 82) Methyläther d. α -Methyl- α -Phenyl- β -[4-Oxybenzyliden]hydrazin. Sm. 113,5—114° (*B.* 36, 363 *C.* 1903 [1] 577).
 83) Methyläther d. polym. α -Methyl- α -Phenyl- β -[4-Oxybenzyliden]-hydrazin = (C₁₅H₁₆ON₂)_n. Sm. 106,5—108,5° (*B.* 36, 369 *C.* 1903 [1] 577).
 84) 5-Oxy-4-Phenylhydrazonmethyl-1, 2-Dimethylbenzol. Sm. 190° (*B.* 35, 4104 *C.* 1903 [1] 149).
 85) 4-Oxy-5-Phenylhydrazonmethyl-1, 3-Dimethylbenzol. Sm. 105° (*B.* 35, 4104 *C.* 1903 [1] 149).
 86) 3-Oxy-2-Phenylhydrazonmethyl-1, 4-Dimethylbenzol. Sm. 148° (*B.* 35, 4104 *C.* 1903 [1] 149).
 87) 5-Oxy-2-Phenylhydrazonmethyl-1, 4-Dimethylbenzol. Sm. 164° (*B.* 35, 4105 *C.* 1903 [1] 149).
 88) Phenylamid d. β -Phenylamidopropionsäure. Sm. 92—93°. HCl (*B.* 36, 1264 *C.* 1903 [1] 1219).
 89) Phenylhydrazid d. β -Phenylpropionsäure. Sm. 116—117° (*B.* 36, 1101 *C.* 1903 [1] 1140).
- $C_{15}H_{16}O_2N_2$ *43) Äthylphenyl-3-Nitrobenzylamin. Sm. 69°. HCl, Pikrat (*A.* 334, 243 *C.* 1904 [2] 901).
 45) Äthylbenzyl-2-Nitrophenylamin. Fl. (2HCl, PtCl₄) (*A.* 334, 252 *C.* 1904 [2] 901).
 46) Äthylbenzyl-4-Nitrophenylamin. Sm. 63° (*A.* 334, 258 *C.* 1904 [2] 902).
 47) Äthylphenyl-2-Nitrobenzylamin. Sm. 66°. HCl, (2HCl, PtCl₄) (*A.* 334, 248 *C.* 1904 [2] 901).
 48) Äthylphenyl-4-Nitrobenzylamin. Sm. 67° (*A.* 334, 247 *C.* 1904 [2] 901).
 49) Methyläther d. β -[4-Oxybenzoyl]- α -Methyl- α -Phenylhydrazin. Sm. 165—166,5° u. Zers. (*B.* 36, 366 *C.* 1903 [1] 577).
 50) 2'-Amido-2, 4-Dimethyldiphenylamin-4'-Carbonsäure. Sm. 179° (*A.* 332, 90 *C.* 1904 [1] 1570).
- $C_{15}H_{16}O_2N_4$ 19) 4,4'-Di[Methylnitrosamidophenyl]methan. Sm. 97—98° (*B.* 37, 2675 *C.* 1904 [2] 443).
 20) α -Phenylureido- α -Methyl- β -Phenylharnstoff. Sm. 204° (*B.* 37, 2324 *C.* 1904 [2] 312).
 21) 2-Dimethylamido-1-[4-Nitrophenylhydrazon]methylbenzol. Sm. 190,5—191° (*B.* 37, 977 *C.* 1904 [1] 1079).
 22) 5-Nitro-2-Dimethylamidobenzylidenphenylhydrazin. Sm. 168° (*M.* 25, 369 *C.* 1904 [2] 322).
 23) Phenylhydrazid d. β -Phenylureidoessigsäure. Sm. 227° (*J. pr.* [2] 70, 251 *C.* 1904 [2] 1464).
- $C_{15}H_{16}O_3N_2$ 21) 4'-Dimethylamido-4-Oxydiphenylamin-3-Carbonsäure. Sm. 175 bis 177° (*D.R.P.* 140733 *C.* 1903 [1] 1011).
 22) Verbindung (aus d. Verb. C₁₅H₁₄O₃N₂). 2HCl (*J. pr.* [2] 70, 372 *C.* 1904 [2] 1566).
- $C_{15}H_{16}O_4N_4$ 3) 4,6-Dinitro-5-Methylamido-2,4'-Dimethyldiphenylamin. Sm. 164° (*J. pr.* [2] 67, 537 *C.* 1903 [2] 239).
- $C_{15}H_{16}O_4S_2$ 8) α -Phenylsulfon- α -Benzylsulfonäthan. Sm. 144° (*B.* 36, 301 *C.* 1903 [1] 500).
 9) α -Äthylsulfon- α -Phenylsulfon- α -Phenylmethan. Sm. 155—156° (*B.* 36, 301 *C.* 1903 [1] 500).

- $C_{15}H_{16}O_5N_2$ 3) Diamid d. δ -Keto- δ -Phenyl- β -Buten- $\alpha\beta\gamma$ -Tricarbonsäuremono-äthylester. Sm. 185—186° (Soc. 69, 1385; 77, 805). — *II, 1200.
C 54,2 — H 4,8 — O 24,1 — N 16,9 — M. G. 332.
- $C_{15}H_{16}O_5N_4$ 1) Verbindung (aus 6-Methyl-3-Phenyl-1,4-Dihydro-1,2-Diazin-1,5-Dicarbon-säure-5-Aethylester-1-Amid). Sm. 270° u. Zers. (A. 331, 313 C. 1904 [2] 46).
- $C_{15}H_{16}O_6N_4$ 2) 5-Amido-1,2,4-Trimethylbenzol + 1,3,5-Trinitrobenzol. Sm. 115° (Soc. 85, 239 C. 1904 [1] 1006).
- $C_{15}H_{16}O_6S_2$ 1) Benzylidenfurfurylidenbischydrosulfonsäure. $K_2 + 2H_2O$ (B. 37, 4056 C. 1904 [2] 1649).
- $C_{15}H_{16}N_2S$ *7) s-Di[2-Methylphenyl]thioharnstoff. Sm. 157° (153—154°) (B. 36, 3847 C. 1904 [1] 89; C. r. 139, 451 C. 1904 [2] 1114).
*8) s-Di[3-Methylphenyl]thioharnstoff. Sm. 120—121° (C. r. 139, 451 C. 1904 [2] 1114).
*9) s-Di[4-Methylphenyl]thioharnstoff. Sm. 176° (178—179°) (B. 36, 3847 C. 1904 [1] 89; C. r. 139, 451 C. 1904 [2] 1114).
- $C_{15}H_{16}N_8Cl$ 3) 2-Chlor-4-Dimethylamidobenzylidenphenylhydrazin. Sm. 122° (B. 37, 864 C. 1904 [1] 1207).
- $C_{15}H_{16}ClJ$ 3) 2-Methyl-4-Aethyldiphenyljodoniumchlorid. Sm. 165°. $2 + PtCl_4$ (A. 327, 294 C. 1903 [2] 352).
- $C_{15}H_{16}BrJ$ 2) 2-Methyl-4-Aethyldiphenyljodoniumbromid. Sm. 150° (A. 327, 294 C. 1903 [2] 352).
- $C_{15}H_{17}ON$ *5) α -Oxy-4-Dimethylamidodiphenylmethan. Sm. 69—70° (B. 37, 1742 C. 1904 [1] 1599).
*20) Phenylamid d. α -Camphylsäure. Sm. 111—112° (Soc. 83, 850 C. 1903 [2] 572).
34) 4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 108—109° (A. 334, 339 C. 1904 [2] 989).
35) 4-[2-Oxybenzyl]amido-1,3-Dimethylbenzol. Sm. 114° (Ar. 240, 687 C. 1903 [1] 395).
- $C_{15}H_{17}O_2N$ 15) 4'-Aethylamido-2,4-Dioxydiphenylmethan. Sm. 154—155° (M. 23, 995 C. 1903 [1] 289).
16) 1-Aethyläther d. 4-[2-Oxybenzyl]amido-1-Oxybenzol. Sm. 145 bis 146° (Ar. 240, 683 C. 1903 [1] 395).
17) Acetat d. 2-Methyläthylamido-1-Oxynaphtalin. Sd. 212—215°₄₀ (Soc. 83, 761 C. 1903 [1] 1419 C. 1903 [2] 448).
- $C_{15}H_{17}O_2N_3$ 6) Aethyläther d. β -[4-Oxyphenyl]amido- α -Phenylharnstoff. Sm. 137—138° u. Zers. (A. 334, 181 C. 1904 [2] 834).
- $C_{15}H_{17}O_3N_3$ 2) 1-Amidd. 6-Methyl-3-Phenyl-1,4-Dihydro-1,2-Diazin-1,5-Dicarbon-säure-5-Aethylester. Sm. 254,5° (A. 331, 312 C. 1904 [2] 45).
- $C_{15}H_{17}O_4N$ 10) Methyl ester d. i- α -[1,2-Phtalyl]amidopentan- α -Carbonsäure. Sm. 65,5—66° (B. 37, 1695 C. 1904 [1] 1525).
11) Aethylester d. α -Phtalylamidoisovaleriansäure. Sd. 332—337°₇₈₂ (B. 37, 1694 C. 1904 [1] 1525).
12) 4-Methoxyphenylmonamid d. 1,2,3,4-Tetrahydrobenzol-5,6-Di-carbonsäure. Sm. 150—155° (B. 36, 999 C. 1903 [1] 1131).
- $C_{15}H_{17}O_5N$ 3) Aethylester d. α -[4-Aethoxyphtalyl]amidopropionsäure. Sm. 78° (B. 37, 1978 C. 1904 [2] 237).
- $C_{15}H_{17}O_5N_7$ C 48,0 — H 4,5 — O 21,3 — N 26,1 — M. G. 375.
1) Azid d. Benzoyltri[Amidoacetyl]amidoessigsäure. Sm. 245—258° (J. pr. [2] 70, 87 C. 1904 [2] 1034).
- $C_{15}H_{17}O_6P$ *1) $\beta\beta$ -Diphenoxylisopropylphosphorigesäure. $Ca + 2H_2O$, Anilinsalz, p-Toluidinsalz (Soc. 83, 1137 C. 1903 [2] 1059).
C 55,7 — H 5,3 — O 34,7 — N 4,3 — M. G. 323.
- $C_{15}H_{17}O_7N$ 1) 3,5-Diacetat d. 2-Diacetylamido-1,3,5-Trioxysbenzol-1-Methyläther. Sm. 127—129° (M. 23, 953 C. 1903 [1] 285).
- $C_{15}H_{17}O_8N$ C 50,7 — H 4,8 — O 40,6 — N 3,9 — M. G. 355.
1) Diäthylester d. Mono[3-Nitrobenzoyl]weinsäure. Sm. 113,5° (Soc. 83, 170 C. 1903 [1] 389, 628).
- $C_{15}H_{17}N_8S$ *7) α -[4-Methylphenyl]amido- β -Benzylthioharnstoff. Sm. 120—121° (J. pr. [2] 67, 258 Anm. C. 1903 [1] 1265).
14) isom. α -[4-Methylphenyl]amido- β -Benzylthioharnstoff. Sm. 156° (J. pr. [2] 67, 258 C. 1903 [1] 1265).

- $C_{15}H_{17}N_3S$ 15) Methyläther d. α -[α -Benzylhydrazido]- α -Phenylimido- α -Merkapto-methan. Fl. (B. 37, 2329 C. 1904 [2] 313).
- 16) Methyläther d. α -[β -Benzylhydrazido]- α -Phenylimido- α -Merkapto-methan. Fl. (B. 37, 2329 C. 1904 [2] 313).
- $C_{15}H_{18}ON_2$ * 16) Aethyläther d. 4'-Oxy-4-Methyl-s-Diphenylhydrazin. Sm. 96—97° (B. 36, 3850 C. 1904 [1] 89).
- 26) α -Oxydi[4-Amido-3-Methylphenyl]methan. Sm. 135° (C. 1903 [2] 442).
- 27) 4'-Dimethylamido-4-Oxy-3-Methyldiphenylamin. Sm. 153—154° (D.R.P. 140733 C. 1903 [1] 1011).
- 28) Aethyläther d. 2'-Amido-5-Oxy-2-Methyldiphenylamin. Sm. 82 bis 83° (B. 36, 3860 C. 1904 [1] 91).
- 29) Aethyläther d. 4-Oxy-2-Methyl-s-Diphenylhydrazin. Sm. 100° (B. 36, 3853 C. 1904 [1] 90).
- $C_{15}H_{18}O_2N_2$ 11) 4'-Dimethylamido-3-Oxy-4-Oxymethyldiphenylamin? Sm. noch nicht bei 300° (J. pr. [2] 69, 239 C. 1904 [1] 1269).
- 12) $\beta\beta$ -Di[*p*-Amido-4-Oxyphenyl]propan. Sm. 218—219° (C. 1904 [2] 1737).
- 13) Dimethyläther d. 3,3'-Diamido-4,4'-Dioxydiphenylmethan. Sm. 107° (D.R.P. 140690 C. 1903 [1] 1010).
- 14) Dimethyläther d. Di[2-Oxyphenylamido]methan. Sm. 86° (B. 36, 48 C. 1903 [1] 505).
- 15) Dimethyläther d. Di[4-Oxyphenylamido]methan. Sm. 66° (B. 36, 49 C. 1903 [1] 505).
- 16) Verbindung (aus Parasantonid). Sm. 171—172° (C. 1903 [2] 1377).
- $C_{15}H_{18}O_2N_4$ 3) Aethylester d. 3-[α -Phenylhydrazonäthyl]-4-Methylpyrazol-5-Carbonsäure. Sm. 197—198° (B. 36, 1130 C. 1903 [1] 1138).
- 4) Amid d. 5-Keto-1-Phenyl-3-Hexahydrophenyl-4,5-Dihydro-1,2,4-Triazol-4-Carbonsäure. Sm. oberh. 300° (B. 36, 1095 C. 1903 [1] 1140).
- $C_{15}H_{18}O_4N_2$ * 2) Pernitrososantonin. Sm. 190° u. Zers. (G. 33 [1] 195 C. 1903 [2] 45).
- 4) 2-Naphtylhydrazon d. l-Xylose. Sm. 123—124° (B. 35, 4444 C. 1903 [1] 392).
- $C_{15}H_{18}O_4N_6$ C 52,0 — H 5,2 — O 18,5 — N 24,3 — M. G. 346.
- 1) Azid d. α -[α -Benzoylamidoacetylamidopropionyl]amidopropion-säure. Sm. 145° u. Zers. (J. pr. [2] 70, 125 C. 1904 [2] 1037).
- $C_{15}H_{18}O_4Br_2$ 1) Dibromparasantonsäure. Sm. 176—177° u. Zers. (C. 1903 [2] 1447).
- $C_{15}H_{18}O_5N_2$ 3) Diäthylester d. β -[2-Methylphenyl]hydrazon- α -Ketoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 86—87° (Bl. [3] 31, 81 C. 1904 [1] 580).
- 4) Diäthylester d. isom. β -[2-Methylphenyl]hydrazon- α -Ketoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 155—156° (Bl. [3] 31, 82 C. 1904 [1] 580).
- $C_{15}H_{18}O_6N_2$ 6) Dimethylester d. α -Benzoylamidoacetylamidoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 136—137° (J. pr. [2] 70, 173 C. 1904 [2] 1396).
- $C_{15}H_{18}O_8N_4$ * 1) Benzoyltri[Amidoacetyl]amidoessigsäure. Sm. 233° (235°). Ag (B. 37, 1283 C. 1904 [1] 1335; J. pr. [2] 70, 84 C. 1904 [2] 1034; B. 37, 2505 C. 1904 [2] 426).
- $C_{15}H_{18}NCl$ * 2) 4-[α -Chloräthyl]-1,3-Dimethylbenzol + Pyridin. Sm. 153° (B. 36, 1637 C. 1903 [2] 26).
- $C_{15}H_{18}NBr$ 1) 4-[α -Bromäthyl]-1,3-Dimethylbenzol + Pyridin. Sm. 144—145° (B. 36, 1638 C. 1903 [2] 26).
- $C_{15}H_{18}NJ$ 1) Dimethylphenylbenzylammoniumjodid. Sm. 165° (Soc. 83, 1409 C. 1904 [1] 438).
- $C_{15}H_{18}N_2S$ 3) α -[*d*-sec. Butyl]- β -[1-Naphtyl]thioharnstoff. Sm. 135° (Ar. 242, 63 C. 1904 [1] 998).
- 4) α -[*d*-sec. Butyl]- β -[2-Naphtyl]thioharnstoff. Sm. 120° (Ar. 242, 63 C. 1904 [1] 998).
- $C_{15}H_{18}N_3Cl$ 1) Chlormethylat d. 4-Dimethylamidoazobenzol. Sm. 193° (B. 36, 1487 C. 1903 [1] 1350).
- $C_{15}H_{18}N_3J$ * 1) Jodmethylat d. 4-Dimethylamidoazobenzol. Sm. 185° (173°) (B. 36, 1486 C. 1903 [1] 1350; A. 327, 113 C. 1903 [1] 1213).
- $C_{15}H_{18}ON$ 15) 2-Oxy-1-[α -Amidoamyl]naphtalin. Sm. 114°. HCl, Pikrat (G. 33 [1] 11 C. 1903 [1] 925).
- 16) Dimethylphenylbenzylammoniumhydroxyd. Jodid, d-Campher-sulfonat (Soc. 83, 1409 C. 1904 [1] 438).

- C₁₅H₉ON** 17) 4-[α -Oxyäthyl]-1,3-Dimethylbenzol + Pyridin. Chlorid, Bromid, Pikrat (*B.* 36, 1638 *C.* 1903 [2] 26).
- C₁₅H₉O₂N** 18) Acetylderivat d. 2-Methylen-1,3-Dimethyl-3-Aethyl-2,3-Dihydroindol. Sm. 85–86° (*G.* 32 [2] 411 *C.* 1903 [1] 838).
- C₁₅H₉O₃N** 11) Parasantonimid. Sm. 216–217° (*C.* 1903 [2] 1067).
- 14) Parasantoninoximid (*C.* 1903 [2] 1377).
- 15) Oxyparasantoninimid? Sm. 256° (*C.* 1903 [2] 1377).
- 16) Anhydrid d. Verbindung C₁₅H₂₁O₄N. Sm. 171–172° (*C.* 1904 [1] 1447).
- C₁₅H₉O₄N** 8) Anhydrocotarninaceton. Sm. 83°. HCl, (2HCl, PtCl₄) (*B.* 37, 212 *C.* 1904 [1] 590).
- C₁₅H₉O₄N₃** 2) 2,5-Diketo-4,4-Dimethyl-1-Phenyltetrahydroimidazol-3- α -Amidoisobuttersäure. Sm. 205° (*C.* 1904 [2] 1029).
- C₁₅H₉O₅N** 6) Oxim d. Mekoninmethylpropylketon. Sm. 153–157° (*M.* 25, 1056 *C.* 1904 [2] 1644).
- 7) Oxim d. Mekoninmethylisopropylketon. Sm. 110° (*M.* 25, 1057 *C.* 1904 [2] 1644).
- 8) isom. Oxim d. Mekoninmethylisopropylketon. Sm. 223° (*M.* 25, 1059 *C.* 1904 [2] 1644).
- C₁₅H₉O₅N₃** *2) Aethylester d. Benzoylbis[Amidoacetyl]amidoessigsäure. Sm. 173° (*J. pr.* [2] 70, 82, 94 *C.* 1904 [2] 1033).
- 3) α -[α -Benzoylamidoacetylamidopropionyl]amidopropionsäure. Sm. 120–130°. Ag (*J. pr.* [2] 70, 122 *C.* 1904 [2] 1037).
- C₁₅H₉O₅Cl** 1) Chlorhydrin d. Dehydrodioxyparasantonsäure. Sm. 204–205° (*C.* 1903 [2] 1447).
- C₁₅H₂₀O₃N₂** 3) 3,6-Diketo-2-Isobutyl-5-[4-Oxybenzyl]hexahydro-1,4-Diazin + H₂O (Anhydrid d. Leucyl-l-Tyrosin). Sm. 310° u. Zers. (*B.* 37, 2498 *C.* 1904 [2] 426).
- C₁₅H₂₀O₃N₄** C 59,2 — H 6,6 — O 15,8 — N 18,4 — M. G. 304.
- 1) Isopropylidenhydrazid d. α -Benzoylamidopropionylamidoessigsäure. Sm. 177° (*J. pr.* [2] 70, 155 *C.* 1904 [2] 1395).
- C₁₅H₂₀O₄N₂** 1) δ -Phenylhydrazonheptan- $\alpha\eta$ -Dicarbonsäure. Sm. 151° u. Zers. (*B.* 37, 3819 *C.* 1904 [2] 1606).
- 12) Aethylester d. β -Benzoylamidoacetylamidobuttersäure. Sm. 80° (*J. pr.* [2] 70, 207 *C.* 1904 [2] 1459).
- 13) Aethylester d. γ -Benzoylamidoacetylamidobuttersäure. Sm. 94° (*J. pr.* [2] 70, 226 *C.* 1904 [2] 1461).
- 14) Aethylester d. α -[α -Benzoylamidopropionyl]amidopropionsäure. Sm. 148–149° (*J. pr.* [2] 70, 149 *C.* 1904 [2] 1394).
- 15) Diäthylester d. 4-Phenyltetrahydropyrazol-3,5-Dicarbonsäure. Sm. 91°; Sd. 280° (*B.* 36, 3779 *C.* 1904 [1] 41).
- C₁₅H₂₀O₅N₄** C 53,6 — H 5,9 — O 23,8 — N 16,7 — M. G. 336.
- 1) Aethylester d. β -Phenylureidoacetylamidoacetylamidoessigsäure. Sm. 203° u. Zers. (*J. pr.* [2] 70, 259 *C.* 1904 [2] 1464).
- C₁₅H₂₀O₅N₆** C 49,4 — H 5,5 — O 22,0 — N 23,1 — M. G. 364.
- 1) Hydrazid d. Benzoyltri[Amidoacetyl]amidoessigsäure. Sm. 268° (*J. pr.* [2] 70, 86 *C.* 1904 [2] 1034).
- C₁₅H₂₀O₅S₂** 1) 4-Methyl-1,3-Phenylendi[α -Sulfonbuttersäure]. Fl. Ba (*J. pr.* [2] 68, 338 *C.* 1903 [2] 1172).
- 2) Diäthylester d. 4-Methyl-1,3-Phenylendi[Sulfonessigsäure]. Fl. (*J. pr.* [2] 68, 337 *C.* 1903 [2] 1172).
- C₁₅H₂₁ON₃** C 69,5 — H 8,1 — O 6,2 — N 16,2 — M. G. 259.
- 1) γ -Semicarbazon- α -[4-Isopropylphenyl]- α -Penten. Sm. 193° (*A.* 330, 258 *C.* 1904 [1] 946).
- 2) γ -Semicarbazon- α -[4-Isopropylphenyl]- β -Methyl- α -Buten. Sm. 177,5° (*A.* 330, 261 *C.* 1904 [1] 947).
- 3) 4-Diäthylamido-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol (*C.* 1897 [1] 1140; D.R.P. 144393 *C.* 1903 [2] 777).
- C₁₅H₂₁O₂N** 13) Phenylamidoformiat d. 1-Oxy-1-Aethylhexahydrobenzol. Sm. 83° (*C. r.* 138, 1324 *C.* 1904 [2] 219).
- C₁₅H₂₁O₃N** 15) Phenylmonamid d. β -Methylhexan- $\beta\epsilon$ -Dicarbonsäure. Sm. 176–178° (*A.* 329, 93 *C.* 1903 [2] 1071).
- C₁₅H₂₁O₄N** 10) Parasantoninhydroxamsäure? Sm. 180° (*C.* 1903 [2] 1377).

- $C_{15}H_{21}O_4N$ 11) Anhydrid d. Hydroxamsantolsäure. Sm. 226—227°. Ba + H_2O (G. 33 [1] 199 C. 1903 [1] 45).
- 12) Verbindung (aus Parasantonsäure). Sm. 239—240° u. Zers. (C. 1903 [2] 1446).
- $C_{15}H_{21}O_4N_3$ C 53,6 — H 6,8 — O 20,8 — N 13,7 — M. G. 307.
- 1) Aethyl ester d. β -Benzoylamidoacetylamidopropylamidoameisensäure. Sm. 151° (J. pr. [2] 70, 215 C. 1904 [2] 1460).
- $C_{15}H_{21}O_4N_5$ C 53,8 — H 6,2 — O 19,1 — N 20,9 — M. G. 335.
- 1) Amid d. α -[α -Benzoylamidoacetylamidopropionyl]amidoäthylamidoameisensäure. Sm. 199° (J. pr. [2] 70, 126 C. 1904 [2] 1037).
- 2) Hydrazid d. α -[α -Benzoylamidoacetylamidopropionyl]amidopropionsäure. Sm. 213° (J. pr. [2] 70, 124 C. 1904 [2] 1037).
- $C_{15}H_{21}O_5N$ 2) Amid d. 3,4-Dioxy-1-[α -Oxy- γ -Ketoisohexyl]benzol-3,4-Dimethyläther-2-Carbonsäure. Sm. 141—143° (M. 25, 1061 C. 1904 [2] 1644).
- $C_{15}H_{21}O_5N_5$ C 51,3 — H 6,0 — O 22,8 — N 19,9 — M. G. 351.
- 1) Aethyl ester d. β -Phenylureidoacetylamidomethylamidoameisensäure. Sm. 244° u. Zers. (J. pr. [2] 70, 262 C. 1904 [2] 1465).
- $C_{15}H_{22}ON_2$ 8) α -Aethyl- α -Hexahydrophenyl- β -Phenylharnstoff. Sm. 125° (C. r. 138, 1258 C. 1904 [2] 105).
- $C_{15}H_{22}O_2N_2$ 5) Piperidinverbindung d. Anetholnitrosochlorid. Sm. 107° (C. 1904 [2] 1038).
- $C_{15}H_{22}O_3N_2$ 2) α -[α -Amidoisocapronyl]amido- β -Phenylpropionsäure + H_2O . Sm. 220—223° (B. 37, 3308 C. 1904 [2] 1306).
- 3) isom. α -[α -Amidoisocapronyl]amido- β -Phenylpropionsäure. Sm. 259° u. Zers. (B. 37, 3308 C. 1904 [2] 1306).
- $C_{15}H_{22}O_3S$ 1) γ -Keto- ϵ -Aethylsulfon- ϵ -Phenyl- β -Methylpentan. Sm. 122—124° (B. 37, 506 C. 1904 [1] 883).
- $C_{15}H_{22}O_4N_2$ 7) Metasantonsäuredioxim. Sm. 115—120° (G. 29 [2] 234). — *II, 1045.
- 8) 1- α -[α -Amidoisocapronyl]amido- β -[4-Oxyphenyl]propionsäure (Leucyl-L-Tyrosin) (B. 37, 2498 C. 1904 [2] 426).
- $C_{15}H_{22}O_7N_2$ *1) Triäthylester d. $\delta\epsilon$ -Diimido- β -Ketohehexan- $\gamma\zeta\eta$ -Tricarbonsäure (A. 332, 144 C. 1904 [2] 191).
- $C_{15}H_{23}O_5Br_2$ 1) Tetraäthylester d. $\alpha\gamma$ -Dibrompropan- $\alpha\alpha\gamma\gamma$ -Tetracarbonsäure. Sm. 54—55° (Soc. 83, 782 C. 1903 [2] 201, 439).
- $C_{15}H_{23}N_7S$ 3) α -Aethyl- α -Hexahydrophenyl- β -Phenylthioharnstoff. Sm. 126° (C. r. 138, 1258 C. 1904 [2] 105).
- $C_{15}H_{23}ON_5$ 2) γ -Semicarbazon- α -[4-Isopropylphenyl]pentan. Sm. 214,5° (A. 330, 260 C. 1904 [1] 947).
- 3) γ -Semicarbazon- α -[4-Isopropylphenyl]- β -Methylbutan. Sm. 148,5° (A. 330, 263 C. 1904 [1] 947).
- $C_{15}H_{23}O_2N$ 6) Benzoat d. α -Dimethylamido- β -Oxy- β -Methylpentan. HCl (C. r. 138, 767 C. 1904 [1] 1196).
- 7) Phenylamidoformiat d. α -Oxyoktan. Sm. 69° (74°) (Bl. [3] 31, 50 C. 1904 [1] 507; C. r. 136, 1677 C. 1903 [2] 419).
- 8) Phenylamidoformiat d. β -Oxyoktan. Fl. (Bl. [3] 31, 51 C. 1904 [1] 507).
- 9) Phenylamid d. α -Oxyoktan- α -Carbonsäure. Sm. 69—70° (C. r. 138, 698 C. 1904 [1] 1066).
- $C_{15}H_{23}O_5N$ 3) Oxim d. Santolsäure. Sm. 202—205° u. Zers. (G. 33 [1] 205 C. 1903 [2] 45).
- $C_{15}H_{23}O_5N_5$ C 55,4 — H 7,1 — O 24,6 — N 12,9 — M. G. 325.
- 1) Semicarbazon d. Keto- β -Santorsäuredimethylester. Sm. 168° (C. 1896 [2] 1114). — *II, 1115.
- $C_{15}H_{23}O_6N$ 4) Triäthylester d. γ -Cyanpentan- $\alpha\gamma\epsilon$ -Tricarbonsäure. Fl. (Soc. 85, 422 C. 1904 [1] 1439).
- $C_{15}H_{23}O_5N$ C 52,2 — H 6,6 — O 37,1 — N 4,1 — M. G. 345.
- 1) Verbindung (aus $\delta\epsilon$ -Diimido- β -Ketohehexan- $\gamma\zeta\eta$ -Tricarbonsäuretriäthylester). Sm. 110° (A. 332, 144 C. 1904 [2] 191).
- $C_{15}H_{23}O_5N_5$ C 44,9 — H 5,7 — O 31,9 — N 17,5 — M. G. 401.
- 1) Pepton (aus Leim) (H. 38, 322 C. 1903 [2] 213).
- 2) Dimethylester d. Semicarbazonglyoximperoxydihydrotetramethyl-dimalonsäure. Sm. 170—172° (Soc. 83, 1261 C. 1903 [2] 1423).

- $C_{15}H_{24}ON_2$ *1) d-Lupanin. (HCl, $AuCl_3$), HJ + $2H_2O$, CHNS + H_2O (C. 1903 [1; 930; G. 33 [1] 428 C. 1903 [2] 839; Ar. 242, 415 C. 1904 [2] 781; Ar. 242, 432 C. 1904 [2] 783).
- $C_{15}H_{24}O_2N_2$ 2) Oxylupanin + $2H_2O$. Sm. 76—77° (172—174° wasserfrei). HCl + $2H_2O$, $2HCl$ + H_2O , ($2HCl$, $PtCl_4$ + H_2O), (HCl, $AuCl_3$), CHNS + H_2O (Ar. 242, 419 C. 1904 [2] 782).
- $C_{15}H_{24}O_4N_2$ *1) Caryophyllennitrosat. Sm. 152° (Ar. 241, 38 C. 1903 [1] 712).
- $C_{15}H_{24}O_4S_2$ 1) 2,4-Di[Butylsulfon]-1-Methylbenzol. Fl. (J. pr. [2] 68, 336 C. 1903 [2] 1172).
- $C_{15}H_{24}O_5N_2$ C 57,7 — H 7,7 — O 25,6 — N 9,0 — M. G. 312.
- 1) Aethylester d. 6-Keto-2,4-Dioxy-5-Cyan-2-Methyl-5-Propylhexahydropyridin-4-Aethyläther-3-Carbonsäure. Sm. 260° (G. 33 [2] 165 C. 1903 [2] 1283).
- 2) α -Verbindung (aus Cyklogalliparsäure). Sm. 63,5° (Ar. 242, 266 C. 1904 [1] 1654).
- 3) β -Verbindung (aus Cyklogalliparsäure). Sm. 59,5° (Ar. 242, 267 C. 1904 [1] 1654).
- $C_{15}H_{24}O_{15}N_3$ 1) Karakin. Sm. 100° (C. 1903 [2] 379).
- $C_{15}H_{24}NJ$ 1) Methylallyl-1-Amylphenylammoniumjodid (C. 1904 [2] 952).
- $C_{15}H_{25}ON_3$ C 68,4 — H 9,5 — O 6,1 — N 16,0 — M. G. 263.
- 1) Semicarbazon d. α -Methyljonon. Sm. 144° (D.R.P. 150827 C. 1904 [1] 1379).
- 2) Semicarbazon d. isom. α -Methyljonon. Sm. 202° (D.R.P. 150827 C. 1904 [1] 1379).
- 3) Semicarbazon d. β -Methyljonon. Sm. 138—139° (D.R.P. 150827 C. 1904 [1] 1379).
- 4) Semicarbazon d. isom. β -Methyljonon. Sm. 175—176° (D.R.P. 150827 C. 1904 [1] 1379).
- $C_{15}H_{26}O_4Cl$ 1) Verbindung (aus d. Verb. $C_{15}H_{24}O$) (C. 1904 [2] 1227).
- $C_{15}H_{26}O_2N_2$ *1) Dioxysparteïn (Sparteinoxid). Sm. 127—128° (B. 37, 3240 C. 1904 [2] 1154).
- $C_{15}H_{26}O_3N_4$ C 61,2 — H 8,8 — O 10,9 — N 19,0 — M. G. 294.
- 1) $\beta\zeta$ -Di[Hydroxylamido]- δ -Phenylhydrazon - $\beta\zeta$ -Dimethylheptan. Sm. 152° (B. 36, 657 C. 1903 [1] 762).
- $C_{15}H_{26}O_3N_2$ C 63,8 — H 9,2 — O 17,0 — N 9,9 — M. G. 282.
- 1) Amidoderivat + H_2O (aus d. Verb. $C_{15}H_{24}O_3N_2$). Sm. 47° (Ar. 242, 270 C. 1904 [1] 1654).
- $C_{15}H_{27}O_3N_3$ *2) Mentylester d. β -Semicarbazidopropen- α -Carbonsäure. Sm. 143 bis 144° (Soc. 81, 1504 C. 1903 [1] 138).
- $C_{15}H_{27}O_6N$ C 56,8 — H 8,5 — O 30,3 — N 4,4 — M. G. 317.
- 1) Aethyl-diisoamylester d. Stickstofftricarbonsäure. Sd. 184—186°₁₃ (B. 37, 3676 C. 1904 [2] 1495).
- $C_{15}H_{27}O_6B$ 1) Gem. Anhydrid d. Isovaleriansäure u. Borsäure. Fl. (B. 36, 2223 C. 1903 [2] 421).
- $C_{15}H_{30}O_2N_6$ C 55,2 — H 9,2 — O 9,8 — N 25,8 — M. G. 326.
- 1) Semicarbazidsemicarbazon d. Citronellidenaceton. Sm. 167° (B. 36, 2802 C. 1903 [2] 878; B. 36, 4378 C. 1904 [1] 454).
- $C_{15}H_{30}N_2Cl_2$ 1) R-Aethylentrimethylendi[Piperidylumchlorid]. + $2HgCl_2$, + $PtCl_4$ (Ph. Ch. 46, 307 C. 1904 [1] 674).
- 2) isom. R-Aethylentrimethylendi[Piperidylumchlorid]. + $2HgCl_2$, + $PtCl_4$ (Ph. Ch. 46, 309 C. 1904 [1] 674).
- $C_{15}H_{30}N_2Br_2$ *1) R-Aethylentrimethylendi[Piperidylumbromid]. Sm. oberh. 300° (Ph. Ch. 46, 306 C. 1904 [1] 674).
- 2) isom. R-Aethylentrimethylendi[Piperidylumbromid]. Sm. oberh. 300° (Ph. Ch. 46, 309 C. 1904 [1] 674).
- $C_{15}H_{30}N_2J_2$ 1) R-Aethylentrimethylendi[Piperidylumjodid]. Sm. 300° u. Zers. (Ph. Ch. 46, 308 C. 1904 [1] 674).
- 2) isom. R-Aethylentrimethylendi[Piperidylumjodid]. Sm. 282° u. Zers. (Ph. Ch. 46, 310 C. 1904 [1] 674).
- $C_{15}H_{31}ON_3$ C 66,9 — H 11,5 — O 5,9 — N 15,6 — M. G. 269.
- 1) γ -Semicarbazontetradekan. Sm. 92° (Bl. [3] 29, 1211 C. 1904 [1] 355).
- $C_{15}H_{32}O_2N_2$ C 66,2 — H 11,7 — O 11,7 — N 10,3 — M. G. 272.
- 1) R-Aethylentrimethylendi[Piperidylumhydroxyd]. d-Campher-sulfonat (Ph. Ch. 46, 313 C. 1904 [1] 675).

- $C_{15}H_{32}O_3N_2$ 2) isom. R-Aethylentrimethylendi[Piperidylumhydroxyd], d-Campher-sulfonat (*Ph. Ch.* 46, 314 *C.* 1904 [1] 675).
- $C_{15}H_{32}N_2S$ 2) α -[d-sec. Butyl]- β -Diisoamylthioharnstoff. *Fl. (Ar.* 242, 61 *C.* 1904 [1] 998).
- $C_{15}H_{33}O_3B$ *1) Triisoamylester d. Borsäure. *Sd.* 258° (*B.* 36, 2221 *C.* 1903 [2] 420).
- $C_{15}H_{36}N_2J_2$ 1) Di[Jodmethylat] d. Di[Dipropylamido]methan. *Sm.* 96° (*B.* 36, 1199 *C.* 1903 [1] 1215).

- $C_{15}H_7O_3NS_2$ 1) Carbindophtenin (*B.* 37, 3351 *C.* 1904 [2] 1058).
- $C_{15}H_7O_4NBr_2$ 1) Dibromamido-9,10-Anthrachinon-2-Carbonsäure (D.R.P. 142997 *C.* 1903 [2] 169).
- $C_{15}H_{10}ONCl$ 4) 1-Chlor-4-Oxy-3-Phenylisochinolin. *Sm.* 119° (*B.* 37, 1691 *C.* 1904 [1] 1524).
- 5) α -Benzoyl- α -[4-Chlorphenyl]essigsäure. *Sm.* 92° (*J. pr.* [2] 67, 378 *C.* 1903 [1] 1356).
- $C_{15}H_{10}ONBr_3$ 1) Nitril d. $\alpha\beta$ -Tribrom- α -Phenyl- β -[2-Oxyphenyl]propionsäure. *Sm.* 135° (*B.* 37, 3166 *C.* 1904 [2] 983).
- $C_{15}H_{10}O_2NCl$ 2) 5-Chlor-1-Methylamido-9,10-Anthrachinon (D.R.P. 144634 *C.* 1903 [2] 750).
- 3) 5-Keto-4-[4-Chlorphenyl]-3-Phenyl-4,5-Dihydroisoxazol. *Sm.* 147° (*J. pr.* [2] 67, 382 *C.* 1903 [1] 1356).
- $C_{15}H_{10}O_2NCl_3$ 1) 3,5-Dichlor-4-Acetylchloramidodiphenylketon. *Sm.* 118° (*Soc.* 85, 345 *C.* 1904 [1] 1405).
- $C_{15}H_{10}O_2NBr$ 2) 4-Brom-1-Methylamido-9,10-Anthrachinon. *Sm.* 192° (D.R.P. 144634 *C.* 1903 [2] 750).
- 3) 5-Brom-1-Methylamido-9,10-Anthrachinon (D.R.P. 144634 *C.* 1903 [2] 750).
- $C_{15}H_{10}O_2NCl$ 1) α -Chlor- γ -Keto- α [oder γ]-Phenyl- γ [oder α]-[4-Nitrophenyl]-propen. *Sm.* 131° (*B.* 37, 1152 *C.* 1904 [1] 1267).
- $C_{15}H_{10}O_2N_2S$ 1) 6-Phenylazo-1,2-Benzpyron-6'-Sulfonsäure (*B.* 37, 4127 *C.* 1904 [2] 1735).
- $C_{15}H_{11}ON_2Cl$ 1) 4-Keto-2-[4-Chlorbenzyl]-3,4-Dihydro-1,3-Benzdiazin. *Sm.* 246° u. Zers. (*J. pr.* [2] 69, 22 *C.* 1904 [1] 640).
- 2) Nitril d. β -Oximido- α -[4-Chlorphenyl]- β -Phenylpropionsäure. *Sm.* 168° (*J. pr.* [2] 67, 381 *C.* 1903 [1] 1356).
- 3) Chlorid d. Azobenzol-4-Akrylsäure (*C. r.* 135, 1117 *C.* 1903 [1] 286).
- $C_{15}H_{11}O_2NCl_2$ 3) 3,5-Dichlor-4-Acetylamidodiphenylketon. *Sm.* 185° (*Soc.* 85, 345 *C.* 1904 [1] 1405).
- 4) 5-Chlor-2-Acetylchloramidodiphenylketon. *Sm.* 107° (*Soc.* 85, 344 *C.* 1904 [1] 1405).
- 5) 3-Chlor-4-Acetylchloramidodiphenylketon. *Sm.* 102° (*Soc.* 85, 342 *C.* 1904 [1] 1405).
- $C_{15}H_{11}O_2NBr_4$ 1) N-Acetylphenyl-3,4,5,6-Tetrabrom-2-Oxybenzylamin. *Sm.* 157 bis 158° (*A.* 332, 178 *C.* 1904 [2] 209).
- $C_{15}H_{11}O_2N_2Cl$ 1) Benzyläther d. Chlorisatinoxim. *Sm.* 224,5° (*B.* 35, 4337 *C.* 1903 [1] 293).
- $C_{15}H_{11}O_2N_2Br$ 2) Benzyläther d. Bromisatinoxim. *Sm.* 200° (*B.* 35, 4337 *C.* 1903 [1] 293).
- $C_{15}H_{11}O_3NBr_2$ *3) $\beta\gamma$ -Dibrom- α -Keto- γ -[4-Nitrophenyl]- α -Phenylpropan. *Sm.* 151° (*B.* 37, 1149 *C.* 1904 [1] 1267).
- $C_{15}H_{11}O_4NS$ 2) 6-Phenylsulfonamido-1,2-Benzpyron. *Sm.* 159° (*Soc.* 85, 1234 *C.* 1904 [2] 1124).
- $C_{15}H_{11}O_5NS$ 1) 1-Methylamido-9,10-Anthrachinon-5-Sulfonsäure (*B.* 37, 70 *C.* 1904 [1] 666).
- 2) 1-Methylamido-9,10-Anthrachinon-8-Sulfonsäure (*B.* 37, 70 *C.* 1904 [1] 666).
- 3) β -Methylamido-9,10-Anthrachinon-1-Sulfonsäure. *Na* (D.R.P. 144634 *C.* 1903 [2] 750).
- $C_{15}H_{11}O_6NS$ 1) 4-Methylamido-1-Oxy-9,10-Anthrachinon-7-Sulfonsäure (D.R.P. 155440 *C.* 1904 [2] 1356).

- $C_{15}H_{12}ON_2S$ *2) 1-Acetylphenylamidobenzthiazol. Sm. 162—163° (B. 34, 3138; B. 36, 3128 C. 1903 [2] 1070).
- $C_{15}H_{12}ON_2Se$ 1) Diphenylamid d. Selencyanessigsäure. Sm. 103° (Ar. 241, 221 C. 1903 [2] 104).
- $C_{15}H_{12}ON_3Br$ 1) 3-Oxy-2-[3-Brom-2-Amidophenyl]-6- oder 7-Methyl-1,4-Benz-diazin. Sm. 243° (B. 35, 4334 C. 1903 [1] 293).
- $C_{15}H_{12}O_2NCl$ 5) Methyl-3-Chlor-4-Benzoylamidodiphenylketon. Sm. 132° (Soc. 85, 342 C. 1904 [1] 1404).
- 6) Methyl-4-Benzoylchloramidodiphenylketon. Sm. 77° (C. 1903 [1] 832).
- 7) 2-Acetylchloramidodiphenylketon. Sm. 102° (C. 1903 [1] 1137).
- 8) 4-Acetylchloramidodiphenylketon. Sm. 124° (C. 1903 [1] 1137).
- 9) 5-Chlor-2-Acetylamidodiphenylketon. Sm. 117° (Soc. 85, 344 C. 1904 [1] 1405).
- 10) 3-Chlor-4-Acetylamidodiphenylketon. Sm. 99,5° (Soc. 85, 342 C. 1904 [1] 1405).
- 11) Amid d. α -Benzoyl- α -[4-Chlorphenyl]essigsäure. Sm. 196° (J. pr. [2] 67, 384 C. 1903 [1] 1356).
- $C_{15}H_{12}O_2NBr$ 5) 2-Acetylbromamidodiphenylketon. Sm. 121° (C. 1903 [1] 1137).
- 6) 4-Acetylbromamidodiphenylketon. Sm. 151° (C. 1903 [1] 1137).
- $C_{15}H_{12}O_2NBr_3$ 1) N-Acetylphenyl-2,4,6-Tribrom-3-Oxybenzylamin. Sm. 180° (A. 332, 182 C. 1904 [2] 209).
- 2) Acetat d. Phenyl-2,4,6-Tribrom-3-Oxybenzylamin. Sm. 99—100° (A. 332, 181 C. 1904 [2] 209).
- $C_{15}H_{12}O_2N_2S$ 1) 2-Acetylido-4-Keto-3-[2-Naphtyl]tetrahydrothiazol. Sm. 139 bis 140° (C. 1903 [2] 110).
- 2) 2-[2-Naphtyl]imido-4-Keto-3-Acetyltetrahydrothiazol. Sm. 142 bis 143° (C. 1903 [2] 110).
- $C_{15}H_{12}O_3NCl$ 1) β -Oximido- α -[4-Chlorphenyl]- β -Phenylpropionsäure. Sm. 153° (J. pr. [2] 67, 385 C. 1903 [1] 1357).
- $C_{15}H_{12}O_4N_2Br_2$ 1) N-Acetyl-3-Nitrophenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 158 bis 159° (A. 332, 189 C. 1904 [2] 210).
- 2) N-Acetyl-4-Nitrophenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 146 bis 150° (A. 332, 190 C. 1904 [2] 210).
- $C_{15}H_{12}O_4N_3Br$ 3) α -Acetyl- α -Phenyl- β -[5-Brom-3-Nitro-2-Oxybenzyliden]-hydrazin. Sm. 248° (B. 37, 3937 C. 1904 [2] 1596).
- 4) Acetat d. α -Phenyl- β -[5-Brom-3-Nitro-2-Oxybenzyliden]-hydrazin. Sm. 209—210° (B. 37, 3936 C. 1904 [2] 1596).
- $C_{15}H_{12}O_6N_2S$ 1) 4-Oxyazobenzol-3-Akrylsäure-4'-Sulfonsäure (B. 37, 4127 C. 1904 [2] 1735).
- $C_{15}H_{12}O_6N_3Cl$ 1) Acetat d. p-Chlor-4,6-Dinitro-4'-Oxy-3-Methyldiphenylamin. Sm. 128° (B. 37, 2093 C. 1904 [2] 34).
- $C_{15}H_{12}NCl_3S$ 1) 4-Methylphenyläther d. $\beta\beta\beta$ -Trichlor- α -[4-Merkaptophenyl]-imidoäthan. Sm. 107—108° (J. pr. [2] 68, 271 C. 1903 [2] 993).
- $C_{15}H_{12}NBrMg$ 1) Chinolinphenylmagnesiumbromid (B. 37, 3091 C. 1904 [2] 995).
- $C_{15}H_{12}N_2Br_2S_2$ 1) Methyläther d. 2,2-Dibrom-5-Merkapto-2,3-Diphenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 196° u. Zers. (J. pr. [2] 67, 237 C. 1903 [1] 1263).
- $C_{15}H_{18}ONBr_4$ 2) 3,4,5,6-Tetrabrom-4'-Dimethylamido-2-Oxydiphenylmethan. Sm. 121—123°. HBr (A. 334, 327 C. 1904 [2] 988).
- $C_{15}H_{18}ONS_2$ 2) 2-Thiocarbonyl-4-Keto-3-Allyl-5-Cinnamylidentetrahydrothiazol. Sm. 166° (M. 24, 514 C. 1903 [2] 837).
- $C_{15}H_{18}ON_3S$ 4) 5-Thiocarbonyl-3-Keto-4-Phenyl-1-Benzyltetrahydro-1,2,4-Triazol. Sm. 218° (B. 37, 2336 C. 1904 [2] 315).
- 5) 5-Merkapto-4-Phenyl-1-Benzyl-4,5-Dihydro-1,2,4-Triazol-3,5-Oxyd. Sm. 147° (B. 37, 2335 C. 1904 [2] 315).
- $C_{15}H_{18}ON_2Br$ 2) Äthyläther d. 6-Oxy-1-[2-Bromphenyl]benzimidazol. Pikrat (B. 36, 3867 C. 1904 [1] 92).
- 3) Äthyläther d. 6-Oxy-1-[3-Bromphenyl]benzimidazol. Sm. 130°. Pikrat (B. 36, 3869 C. 1904 [1] 92).
- $C_{15}H_{18}ON_3S$ 4) 2-Phenylimido-6-Keto-4-Phenyl-3,4,5,6-Tetrahydro-1,3,4-Thiodiazin? Sm. 201° u. Zers. (B. 36, 3888 C. 1904 [1] 27).
- $C_{15}H_{18}O_2NBr_2$ *1) Phenyl-3,5-Dibrom-2-Oxybenzylamid d. Essigsäure. Sm. 152° (A. 332, 177 C. 1904 [2] 209).

- $C_{15}H_{13}O_2N_2Br$ 10) α -Acetyl- α -Phenyl- β -[5-Brom-2-Oxybenzyliden]hydrazin. Sm. 152° (B. 37, 3935 C. 1904 [2] 1596).
- $C_{15}H_{13}O_2N_2Br$ 11) Acetat d. α -Phenyl- β -[5-Brom-2-Oxybenzyliden]hydrazin. Sm. 133° (B. 37, 3934 C. 1904 [2] 1596).
- $C_{15}H_{18}O_3NBr_2$ 1) Methylester d. 3-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 120–123° (A. 332, 197 C. 1904 [2] 210).
- $C_{15}H_{13}O_3N_2Br$ 3) Bromderivat d. Verb. $C_{15}H_{14}O_3N_2$. Sm. 212° (J. pr. [2] 70, 374 C. 1904 [2] 1566).
- $C_{15}H_{13}O_4N_2Cl$ 1) 2-Chlor-6-Nitro-2-Methyl-3-[4-Nitrophenyl]-1,2,3,4-Tetrahydro-1,3-Benzodiazin (B. 36, 3121 C. 1903 [2] 1132).
- $C_{15}H_{13}N_2BrS_2$ 1) Methyläther d. 2-Brom-5-Merkapto-2,3-Diphenyl-2,3-Dihydro-1,3,4-Thiodiazol. + Br_2 (Sm. 172°) (J. pr. [2] 67, 237 C. 1903 [1] 1263).
- $C_{15}H_{13}N_2JS_2$ 1) Methyläther d. 2-Jod-5-Merkapto-2,3-Diphenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 188°. + J_2 (J. pr. [2] 67, 222 C. 1903 [2] 1261).
- $C_{15}H_{14}ONCl$ 13) Phenylbenzylamid d. Essigsäure. Sm. 80–81° (Ar. 241, 218 C. 1903 [2] 104).
- $C_{15}H_{14}ONBr_3$ 1) 2,3,5-Tribrom-4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 127°. HBr (A. 334, 331 C. 1904 [2] 988).
- $C_{15}H_{14}ON_2S$ *6) 6-Aethyläther d. 2-Merkapto-6-Oxy-1-Phenylbenzimidazol. Sm. 229°. Hg (B. 36, 3848 C. 1904 [1] 89).
- $C_{15}H_{14}ON_2S_2$ *2) Monomethyläther d. α -Dimerkaptomethylen- α -Benzoyl- β -Phenylhydrazin. Sm. 201–202° (J. pr. [2] 67, 223 C. 1903 [1] 1261).
- $C_{15}H_{14}ON_4S_2$ 1) s-Di[Phenylamidothioformyl]harnstoff. Sm. 166° (Soc. 83, 91 C. 1903 [1] 230, 447).
- $C_{15}H_{14}O_2NCl$ 3) 4-Chlor-1-[Acetyl-2-Oxybenzyl]amidobenzol. Sm. 95° (Ar. 240, 685 C. 1903 [1] 395).
- $C_{15}H_{14}O_2NBr$ 2) 4-Brom-1-[Acetyl-2-Oxybenzyl]amidobenzol. Sm. 108° (Ar. 240, 686 C. 1903 [1] 395).
- $C_{15}H_{14}O_2N_2S$ 3) Phenylamidoformiat d. 5-Brom-4-Oxy-1,3-Dimethylbenzol. Sm. 138–139° (B. 36, 2876 Anm. C. 1903 [2] 834).
- $C_{15}H_{14}O_2N_2S$ 7) Methylester d. Diphenylthioallophansäure. Sm. 105° (Soc. 83, 557 C. 1903 [1] 1123).
- $C_{15}H_{14}O_2N_2S$ 8) 4-[4-Methylphenyl]merkaptophenylamid d. Oxaminsäure (p-Thiotolylphenyloxamid). Sm. 222° (J. pr. [2] 68, 268 C. 1903 [2] 993).
- $C_{15}H_{14}O_2N_2S$ 2) 6-Chlor-3-Nitro-4-Dimethylamido-1-Phenylimidomethylbenzol. Sm. 118° (B. 37, 865 C. 1904 [1] 1207).
- $C_{15}H_{14}O_3N_2S$ 2) 2-Naphthylacetylthiohydantoinsäure. Sm. 167–173° (C. 1903 [2] 110).
- $C_{15}H_{14}O_4N_2S$ *2) s-Di[2-Nitro-4-Methylphenyl]thioharnstoff. Sm. 207° (B. 36, 1139 C. 1903 [1] 1220).
- $C_{15}H_{14}O_5N_2S$ 1) Aldehyd d. 4-Nitro-5-Dimethylamidodiphenylsulfon-2-Carbonsäure. Sm. 196° (B. 37, 866 C. 1904 [1] 1207).
- $C_{15}H_{14}O_6N_2S$ 1) 4-Oxyazobenzol-2-Propionsäure-4'-Sulfonsäure (B. 37, 4131 C. 1904 [2] 1735).
- $C_{15}H_{14}O_6N_2S$ 2) 4-Oxyazobenzol-3-Propionsäure-4'-Sulfonsäure (B. 37, 4130 C. 1904 [2] 1735).
- $C_{15}H_{14}O_6N_2S$ 3) 6-Oxyazobenzol-3-Propionsäure-4'-Sulfonsäure (B. 37, 4131 C. 1904 [2] 1736).
- $C_{15}H_{14}N_3ClS$ 1) Verbindung (aus β -Phenylamido- α -Phenylthioharnstoff u. Acetylchlorid). Sm. 218° (J. pr. [2] 67, 253 C. 1903 [1] 1265).
- $C_{15}H_{14}N_3JS$ 1) Methyläther d. 5-Jod-3-Merkapto-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 243° (J. pr. [2] 67, 250 C. 1903 [1] 1264).
- $C_{15}H_{15}ONBr_2$ 4) 3,5-Dibrom-4'-Dimethylamido-4-Oxydiphenylmethan. Fl. HBr (A. 334, 338 C. 1904 [2] 989).
- $C_{15}H_{15}ONS$ 14) 4-Acetylamido-4-Methylidiphenylsulfid. Sm. 108° (J. pr. [2] 68, 267 C. 1903 [2] 993).
- $C_{15}H_{15}ONS$ 15) 4-Aethoxyphenylamid d. Benzolthiocarbonsäure. Sm. 127° (B. 37, 876 C. 1904 [1] 1004).

- C₁₅H₁₅O₂NS** *1) 1-Phenylsulfon-1,2,3,4-Tetrahydrochinolin. Sm. 54—55° (*B. 36*, 2706 *C. 1903* [2] 829).
 5) 4'-Acetylamido-4-Methyldiphenylsulfoxyd. Sm. 182,5° (*J. pr.* [2] 68, 277 *C. 1903* [2] 994).
- C₁₅H₁₅O₂N₂S** 4) αγ-Diphenylthiosemicarbazidoessigsäure. Sm. 195° u. Zers. (*B. 36*, 3887 *C. 1904* [1] 27).
- C₁₅H₁₅O₂N₂Cl** 1) 6-Chlor-3-Nitro-4-Dimethylamidobenzylidenphenylhydrazin. Sm. 166° (*B. 37*, 865 *C. 1904* [1] 1207).
- C₁₅H₁₅O₃NS** 9) Methyl-4-[4-Methylphenylsulfon]amidophenylketon. Sm. 203° (*Soc. 85*, 391 *C. 1904* [1] 1404).
 10) Aethyl-4-Phenylsulfonamidophenylketon. Sm. 165° (*Soc. 85*, 394 *C. 1904* [1] 1404).
 11) 4'-Acetylamido-4-Methyldiphenylsulfon. Sm. 195° (*J. pr.* [2] 68, 277 *C. 1903* [2] 994).
- C₁₅H₁₅O₅NS** 4) 2,4-Dimethyldiphenylamin-2'-Carbonsäure-p-Sulfonsäure. Na (*D. R. P.* 146 102 *C. 1903* [2] 1152).
 5) 4-Dimethylamido-2-Oxydiphenylketon-3'-Sulfonsäure. K (*B. 37*, 208 *C. 1904* [1] 665).
- C₁₅H₁₅O₅N₂Br** 1) 3-Brom-2,4,6-Trinitro-1-Methylbenzol + Dimethylamidobenzol. Sm. 120° (*B. 37*, 178 *C. 1904* [1] 653).
- C₁₅H₁₆ONJ** 1) Jodmethylat d. 1-Oxy-2-[2-Pyridyl]-2,3-Dihydroinden. Sm. 130° (*B. 36*, 1656 *C. 1903* [2] 39).
- C₁₅H₁₆ON₂S** 4) α-Phenyl-β-[β-Oxy-β-Phenyläthyl]thioharnstoff. Sm. 131—132° (*B. 37*, 2483 *C. 1904* [2] 420).
 5) Aethyläther d. 3-Oxy-s-Diphenylthioharnstoff. Sm. 138,5° (*B. 36*, 4102 *C. 1904* [1] 271).
 6) 4-Methylphenyläther d. 4-Merkapto-2-Methylphenylharnstoff. Sm. 175° (*J. pr.* [2] 68, 285 *C. 1903* [2] 995).
- C₁₅H₁₆O₃N₂S** 3) α-Phenylsulfon-β-Aethyl-β-Phenylharnstoff. Sm. 123,2° (*B. 37*, 695 *C. 1904* [1] 1074).
 4) 1-[4-Aethylamidobenzyliden]amidobenzol-4-Sulfonsäure (*B. 37*, 858 *C. 1904* [1] 1206).
- C₁₅H₁₆O₅N₂S** 1) d-α-[2-Naphtylsulfonamidoacetyl]amidopropionsäure + H₂O. Sm. 154—155° (wasserfrei) (*B. 36*, 2594 *C. 1903* [2] 618).
 2) r-α-[2-Naphtylsulfonamidoacetyl]amidopropionsäure (β-Naphtylsulfoglycyllalanin). Sm. 172—173° (*B. 36*, 2106 *C. 1903* [1] 1304).
 3) α-d-[2-Naphtylsulfonamidopropionyl]amidoessigsäure. Sm. 180,5 bis 181,5° (*B. 36*, 2595 *C. 1903* [2] 618).
- C₁₅H₁₇O₂NS** 5) Piperidid d. Naphtalin-2-Sulfonsäure. Sm. 135—136° (*B. 37*, 3250 *C. 1904* [2] 996).
- C₁₅H₁₇O₂N₂P** 1) Phenylmonamid d. 1,2,3,4-Tetrahydro-1-Chinolyphosphinsäure (*A. 326*, 198 *C. 1903* [1] 821).
- C₁₅H₁₈O₄N₄S** 1) 2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Phenyltetrahydroimidazol-1-α-Nitrosamidoisobuttersäure. Sm. 166° (*C. 1904* [2] 1028).
- C₁₅H₁₈O₆N₂S** 1) 2-Naphtylsulfonhydrazon d. 1-Arabinose. Zers. bei 175° (*C. 1904* [2] 1494).
- C₁₅H₁₉ON₂J** *1) Jodmethylat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 218° (*J. pr.* [2] 69, 166 *C. 1904* [1] 1268).
 2) Jodmethylat d. 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 199,5—200° (*J. pr.* [2] 69, 236 *C. 1904* [1] 1269).
- C₁₅H₁₉O₃N₂Cl₃** 1) Verbindung (*C. 1903* [2] 19).
- C₁₅H₁₉O₃N₂Br** 1) Isoamyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydrochinolin. Sm. 65° (*J. pr.* [2] 45, 188). — IV, 266.
- C₁₅H₁₉O₃N₂S** 1) 2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Phenyltetrahydroimidazol-1-α-Amidoisobuttersäure. Sm. 153° (*C. 1904* [2] 1028).
- C₁₅H₂₀ON₂S₂** 1) Verbindung (aus Taurin u. Benzoesäureanhydrid). Sm. 175° (*C. 1903* [2] 986).
- C₁₅H₂₀ON₂P** 1) Propylamid-Di[Phenylamid] d. Phosphorsäure. Sm. 146° (*A. 326*, 173 *C. 1903* [1] 819).
- C₁₅H₂₀O₃N₂Br** 1) α-[α-Bromisocapronyl]amido-β-Phenylpropionsäure. Sm. 119 bis 123° (*B. 37*, 3306 *C. 1904* [2] 1305).
- C₁₅H₂₀O₄N₂Br** 1) 1-α-[α-Bromisocapronyl]amido-α-[4-Oxyphenyl]propionsäure. Sm. 139—140° (*B. 37*, 2497 *C. 1904* [2] 425).

- $C_{15}H_{20}N_3SP$ 1) Propylmonamid-Di[Phenylamid] d. Thiophosphorsäure. Sm. 116° (A. 326, 204 C. 1903 [1] 821).
- $C_{15}H_{21}ONBr_2$ 1) Methyläther d. 1-[3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl]hexahydropyridin. Sm. 49–51° (A. 334, 304 C. 1904 [2] 985).
- $C_{15}H_{21}O_3ClSi$ 1) Triacetylacetonilsiliciumchlorid. HCl, (HCl, $FeCl_3$), (2HCl, $PtCl_4$), (HCl, $AuCl_3$) (B. 36, 926 C. 1903 [1] 1025).
- $C_{15}H_{21}N_2JS$ 1) 2-Jodisobutylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Methyläther. Sm. 189–191° (A. 331, 227 C. 1904 [1] 1220).
- 2) 2-Jodmethylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Isobutyläther. Sm. 117° (A. 331, 202 C. 1904 [1] 1218).
- $C_{15}H_{22}ON_5P$ 1) Propylamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 151° (A. 326, 175 C. 1903 [1] 819).
- $C_{15}H_{24}ONCl$ *1) Caryophyllennitrosylechlorid. Sm. 158° (Ar. 241, 38 C. 1903 [1] 712).
- $C_{15}H_{25}O_3NS$ 3) Aethylamid d. δ -Oxy- δ -Phenylheptan- δ^2 -Sulfonsäure. Sm. 117 bis 118° (B. 37, 3261 C. 1904 [2] 1031).
- $C_{15}H_{26}ON_3P$ *1) 1-Tripiperidinphosphinoxid. Sm. 75–76° (A. 326, 200 C. 1903 [1] 821). — *IV, 10.
- $C_{15}H_{30}N_3SP$ *1) 1-Tripiperidylphosphinsulfid. Sm. 120° (A. 326, 219 C. 1903 [1] 822). — *IV, 10.
- $C_{15}H_{38}N_3SP$ 1) Tri[Amlyamid] d. Thiophosphinsäure. Fl. (A. 326, 208 C. 1903 [1] 821).

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- $C_{15}H_{11}O_2NCl_2Br_2$ 1) N-Acetyl- β -Dichlorphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 141,5–143,5° (A. 332, 188 C. 1904 [2] 210).
- $C_{15}H_{12}O_2NClBr_2$ 1) N-Acetyl-2-Chlorphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 129–130° (A. 332, 188 C. 1904 [2] 210).
- $C_{15}H_{13}ON_2BrS$ 1) 6-Aethyläther d. 2-Merkapto-6-Oxy-1-[3-Bromphenyl]benzimidazol. Sm. 201° (B. 36, 3869 C. 1904 [1] 92).
- $C_{15}H_{14}O_3NCIS$ 1) Methyl-4-[4-Methylphenylsulfon]chloramidophenylketon. Sm. 93° (Soc. 85, 391 C. 1904 [1] 1404).
- 2) Aethyl-4-Phenylsulfonchloramidophenylketon. Sm. 81° (Soc. 85, 394 C. 1904 [1] 1404).
- $C_{15}H_{15}ON_2Br_2S$ 1) Verbindung (aus Acetyl-s-Diphenylthioharnstoff). Sm. 167° u. Zers. (B. 34, 3138; B. 35, 3128 C. 1903 [2] 1070).
- $C_{15}H_{16}ON_2ClP$ 1) Phenylmonamid d. 1,2,3,4-Tetrahydro-1-Chinolylphosphinsäuremonoehlorid. Sm. 174–175° (A. 326, 198 C. 1903 [1] 821).

 C_{16} -Gruppe.

- $C_{16}H_{12}$ *2) 2-Phenylnaphtalin. Sm. 101–102° (B. 36, 3910 C. 1903 [2] 1439; B. 36, 4010 C. 1904 [1] 176).
- *9) Kohlenwasserstoff (aus Naphtalin). Sm. 180–181° (Soc. 85, 220 C. 1904 [1] 656, 939).
- $C_{16}H_{14}$ *2) $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien. Sm. 149° (C. r. 135, 1347 C. 1903 [1] 328).
- *6) 2,6-Dimethylanthracen. Sm. 215–216° (Soc. 85, 216 C. 1904 [1] 656, 939).
- $C_{16}H_{16}$ *9) $\alpha\beta$ -Di-4-Methylphenyläthen (R. 21, 453 C. 1903 [1] 503).
- *14) $\alpha\alpha$ -Diphenyl- α -Buten. Sd. 286°₇₆₀ (B. 37, 1451 C. 1904 [1] 1352).
- 15) $\alpha\beta$ -Diphenyl- α -Buten. Sm. 57°; Sd. 296–297° (B. 37, 1453 C. 1904 [1] 1352).
- 16) $\alpha\beta$ -Di[3-Methylphenyl]äthen. Sm. 55–56° (R. 21, 456 C. 1903 [1] 503).
- $C_{16}H_{18}$ *11) $\alpha\beta$ -Di[3-Methylphenyl]äthan. Sd. 298° (R. 21, 457 C. 1903 [1] 503).
- *21) $\alpha\beta$ -Di[4-Methylphenyl]äthan. Sm. 81–82° (R. 21, 453 C. 1903 [1] 503).
- *23) $\alpha\alpha$ -Diphenylbutan. Sm. 27°; Sd. 265–266°₇₅₁ (B. 37, 1452 C. 1904 [1] 1352).
- 25) $\alpha\beta$ -Diphenylbutan. Sd. 288–289° (B. 37, 1454 C. 1904 [1] 1353).
- 26) 2,4,2',4'-Tetramethylbiphenyl. Sm. 41°; Sd. 288°₇₂₂ (A. 332, 45 C. 1904 [2] 40).
- 27) 2,5,2',5'-Tetramethylbiphenyl. Sm. 50°; Sd. 284°₇₃₂ (A. 332, 46 C. 1904 [2] 40).
- $C_{16}H_{24}$ 3) α -[2,4,6-Trimethylphenyl]- α -Hepten. Sd. 270–272° (B. 37, 931 C. 1904 [1] 1209).

- $C_{16}H_{26}$ 3) 2-Heptyl-1,3,5-Trimethylbenzol. *Sd.* 271—272°₇₅₀ (*B.* 37, 1720 *C.* 1904 [1] 1489).
- $C_{16}H_{32}$ 4) $\beta\beta$ -Dimethyl- ϵ -Isoamyl- δ -Nonen. *Sd.* 114—115°₁₀ (*C. r.* 136, 816 *C.* 1903 [1] 1077).

— 16 II —

- $C_{16}H_8O_6$ *2) Styrogallol. *K* (*Soc.* 83, 139 *C.* 1903 [1] 89, 466).
- $C_{16}H_{10}O$ 3) $\beta\beta$ -Phenylennaphtylenoxyd (Brasan). *Sm.* 202° (*B.* 36, 2199 *C.* 1903 [2] 381).
- $C_{16}H_{10}O_3$ *7) Anhydrid d. Diphenylmaleinsäure. *Sm.* 156° (*Soc.* 83, 289 *C.* 1903 [1] 877; *B.* 36, 2652 *C.* 1903 [2] 725).
- $C_{16}H_{10}O_4$ 19) Methylenäther d. 2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran. *Sm.* 192° (*B.* 30, 1083; 32, 316). — *III, 531.
- $C_{16}H_{10}O_5$ *3) Dilakton d. Di[α -Oxybenzyl]äther-2,2'-Dicarbonsäure. *Sm.* 221 bis 223° (*M.* 25, 499 *C.* 1904 [2] 325).
- 5) 2-Aldehydobenzoat d. 1-Dioxyethylbenzol-2-Carbonsäure-1,2-Lakton. *Sm.* 202° (*M.* 25, 499 *C.* 1904 [2] 325).
- $C_{16}H_{10}O_6$ 6) 3,4-Methylenäther d. 5,6-Dioxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran. *Sm.* 221° (*B.* 29, 2435). — *III, 533.
- 7) 1,3-Phenyleneester d. Furan-2-Carbonsäure. *Sm.* 128—129° (*B.* 37, 2952 *C.* 1904 [2] 993).
- $C_{16}H_{10}O_8$ 4) Biphenyl-3,4,3',4'-Tetracarbonsäure. *Sm.* noch nicht bei 250° (*B.* 26, 2486).
- $C_{16}H_{10}N_2$ *5) Nitril d. $\alpha\beta$ -Diphenyläthen- $\alpha\beta$ -Dicarbonsäure. *Sm.* 157° (160°) (*C.* 1903 [2] 493; *B.* 36, 2652 *C.* 1903 [2] 725; *B.* 36, 2862 *C.* 1903 [2] 1129).
- $C_{16}H_{10}N_6$ *C* 67,1 — *H* 3,5 — *N* 29,4 — *M. G.* 286.
- 1) Fluorobin. *Sm.* noch nicht bei 300° (*B.* 36, 4048 *C.* 1904 [1] 184; *B.* 36, 4051 *C.* 1904 [1] 185).
- $C_{16}H_{11}N$ *5) isom. Phenyl- β -Naphtylcarbazol. *Sm.* 134—135°; *Sd.* 448°₇₆₀. *Pikrat* (*B.* 31, 1697; *Soc.* 83, 271 *C.* 1903 [1] 883; *A.* 332, 101 *C.* 1904 [1] 1571).
- $C_{16}H_{12}O_2$ *3) 4-Methylen-2-[4-Oxyphenyl]-1,4-Benzpyran (Phenacetin) (*B.* 36, 732 *C.* 1903 [1] 840).
- *24) stab. Lakton d. γ -Oxy- $\beta\gamma$ -Diphenylpropen- α -Carbonsäure. *Sm.* 151,5° (*Soc.* 83, 292 *C.* 1903 [1] 877; *B.* 37, 3126 *C.* 1904 [2] 1042).
- 47) isom. Lakton d. α -Oxy- $\alpha\gamma$ -Diphenylpropen- γ -Carbonsäure. *Sm.* 284 bis 286° (*Soc.* 85, 1362 *C.* 1904 [2] 1646).
- $C_{16}H_{12}O_3$ 40) Methylester d. 3-Oxyphenanthren-2-Carbonsäure. *Sm.* 171° (*B.* 35, 4428 *C.* 1903 [1] 334).
- 41) Methylester d. 2-Oxyphenanthren-3-Carbonsäure. *Sm.* 126° (*B.* 35, 4428 *C.* 1903 [1] 334).
- $C_{16}H_{12}O_4$ *3) 7-Oxy-4-Methylen-2-[2,4-Dioxyphenyl]-1,4-Benzpyran + H_2O (Resacetin). $HCl + \frac{1}{2}H_2O$, *Pikrat* (*B.* 36, 733 *C.* 1903 [1] 839; *B.* 37, 363 *C.* 1904 [1] 671).
- *32) Diphenylester d. Fumarsäure. *Sd.* 219°₁₄ (*B.* 35, 4086 *C.* 1903 [1] 75).
- *43) Äthylester d. Naphtaronylessigsäure (*Soc.* 83, 1130 *C.* 1903 [2] 1060).
- 44) Methyläther d. $\alpha\beta\gamma$ -Tri keto- α -Phenyl- γ -[4-Oxyphenyl]propan. *Sm.* 65° (*B.* 37, 1535 *C.* 1904 [1] 1609).
- 45) 1,5-Dioxy-2,6-Dimethyl-9,10-Anthrachinon. *Sm.* 224—225° (*Soc.* 83, 1333 *C.* 1904 [1] 100).
- 46) 1,7-Dioxy-2,6-Dimethyl-9,10-Anthrachinon. *Sm.* noch nicht bei 300° (*Soc.* 83, 1331 *C.* 1904 [1] 100).
- 47) 3,7-Dioxy-2,6-Dimethyl-9,10-Anthrachinon. *Sm.* 232° (*Soc.* 83, 1333 *C.* 1904 [1] 100).
- 48) Dimethyläther d. 1,5-Dioxy-9,10-Anthrachinon. *Sm.* 230° (*D. R. P.* 77818). — *III, 305.
- 49) Dimethyläther d. 1,8-Dioxy-9,10-Anthrachinon. *Sm.* 215° (*D. R. P.* 77818). — *III, 307.
- 50) Dimethyläther d. 2,7-Dioxy-9,10-Anthrachinon. *Sm.* 215° (*D. R. P.* 143858 *C.* 1903 [2] 404).

- $C_{16}H_{12}O_4$ 51) Dimethyläther d. 4,5-Dioxy-9,10-Phenanthrenchinon. Sm. 190 bis 191° (*B.* 36, 3751 *C.* 1904 [1] 38).
 52) 2-Keto-5,6-Dioxy-1-[4-Methylbenzyliden]-1,2-Dihydrobenzofuran. Sm. 276° (*B.* 37, 825 *C.* 1904 [1] 1152).
 53) Monomethyläther d. 5,6-Dioxy-2-Keto-1-Benzyliden-1,2-Dihydrobenzofuran. Sm. 158° (*B.* 29, 2432). — *III, 532.
 54) 6-Methyläther d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 204 bis 205° (*B.* 37, 775 *C.* 1904 [1] 1155).
 55) 7-Methyläther d. 3,7-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 180° (*B.* 37, 1181 *C.* 1904 [1] 1275).
 56) 3,4-Dioxyphenanthren-3-Methyläther-9-Carbonsäure. Sm. 264° (*B.* 35, 4414 *C.* 1903 [1] 344).
 57) Äthylester d. 1,2- α -Naphtopyron-4-Carbonsäure. Sm. 145–146° (*B.* 36, 1968 *C.* 1903 [2] 377).
 58) Äthylester d. 3,4- β -Naphtopyron-2-Carbonsäure (Ae. d. β -Naphthocumarin- α -Carbonsäure). Sm. 115° (*B.* 36, 1971 *C.* 1903 [2] 377).
 59) Diphenylester d. Maleinsäure. Sm. 73°; Sd. 226°₁₆ (*B.* 35, 4086 *C.* 1903 [1] 75).
- $C_{16}H_{12}O_5$ *3) Brasileïn (*B.* 36, 400 *C.* 1903 [1] 587; *B.* 36, 3951 *C.* 1904 [1] 170; *M.* 25, 885 *C.* 1904 [2] 1313).
 *25) isom. Dimethyläther d. 1,2,3-Trioxo-9,10-Anthrachinon. Sm. 159 bis 160°. Na, Li (*M.* 23, 1014 *C.* 1903 [1] 290).
 26) 1-Methyläther d. 2-Keto-5,6-Dioxy-1-[4-Oxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 252° (*B.* 37, 825 *C.* 1904 [1] 1152).
 27) isom. Monomethyläther d. Emodin. Sm. 200° (*Soc.* 83, 26 *C.* 1904 [1] 100).
 28) 4,7-Dioxy-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Pikrat (*B.* 36, 1947 *C.* 1903 [2] 296).
- $C_{16}H_{12}O_6$ *4) 2⁴-Methyläther d. 3,5,7-Trioxo-2-[4-Oxyphenyl]-1,4-Benzpyron (Kämpferid). K + H₂O (*Soc.* 83, 136 *C.* 1903 [1] 89, 466; *B.* 37, 2096 *C.* 1904 [2] 121).
 22) Dimethyläther d. 1,3,5,7-Tetraoxo-9,10-Anthrachinon. Sm. 280 bis 283° (D. R. P. 139424 *C.* 1903 [1] 678).
 23) 1,8-Lakton d. 4- oder -5-Acetyl-1-Acetoxyloxymethylnaphtalin-8-Carbonsäure. Sm. 183° (*A.* 327, 90 *C.* 1903 [1] 1228).
- $C_{16}H_{12}O_7$ 5) Cocacetin + 3H₂O. Sm. 260–265° (wasserfrei) (*J. pr.* [2] 66, 408 *C.* 1903 [1] 527).
- $C_{16}H_{12}N_2$ *14) Nitril d. $\alpha\beta$ -Diphenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 224° (*Soc.* 83, 998 *C.* 1903 [2] 373, 666; *B.* 37, 4067 *C.* 1904 [2] 1651).
 *17) 3,6-Diphenyl-1,2-Diazin (*B.* 36, 496 *C.* 1903 [1] 653).
 20) Nitril d. $\alpha\beta$ -Diphenyläthan- $\alpha\alpha$ -Dicarbonsäure. Sm. 97–98° (*Am.* 32, 129 *C.* 1904 [2] 954).
- $C_{16}H_{12}N_4$ 5) bim. Crotonaldazin. Sm. 95–100° (*M.* 24, 440 *C.* 1903 [2] 617).
 6) Nitril d. $\alpha\beta$ -Di[2-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure. Sm. 265° (*A.* 332, 284 *C.* 1904 [2] 702).
 7) Nitril d. $\alpha\beta$ -Di[4-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure. Sm. oberh. 300° (*A.* 332, 280 *C.* 1904 [2] 701).
- $C_{16}H_{13}N$ *2) 2-Phenylamidonaphtalin (*C.* 1904 [1] 1013).
 *8) 2-Methyl-4-Phenylchinolin. Sd. 200–203°₃₀ (*B.* 36, 2456 *C.* 1903 [2] 670).
 *18) 1-Benzylisochinolin. Sd. 211–213°₁₁. HCl, (2HCl, PtCl₄), Pikrat (*B.* 37, 3399 *C.* 1904 [2] 1317).
 *19) 3-Benzylisochinolin. Sm. 104°; Sd. 311°₂₈. HCl, (2HCl, PtCl₄ + H₂O), 5(HCl, HgCl₂), HNO₃, H₂SO₄, Pikrat (*A.* 328, 326 *C.* 1903 [2] 1074).
 *20) 4-Benzylisochinolin. Sm. 117,5–118°; Sd. 238°₂₈. HCl, (2HCl, PtCl₄ + H₂O), (2HCl, HgCl₂ + 1/2 H₂O), HNO₃, H₂SO₄, Pikrat (*A.* 326, 265 *C.* 1903 [1] 927).
- $C_{18}H_{14}O$ *6) α -Keto- $\alpha\gamma$ -Diphenyl- β -Buten. Sd. 340–345° (*C.* 1903 [1] 521, 880; *M.* 25, 431 *C.* 1904 [2] 336).
 19) γ -Keto- $\alpha\beta$ -Diphenyl- α -Buten. Sm. 53–54° (*M.* 18, 444; 19, 411; 22, 667). — *III, 185.
 20) γ -Keto- $\alpha\gamma$ -Diphenyl- β -Methylpropen. Sd. 190–192°₂₈ (*Am.* 31, 656 *C.* 1904 [2] 446).

- C₁₆H₁₄O₂** *27) Methylläther d. γ -Keto- α -[4-Oxyphenyl]- γ -Phenylpropen. HCl, HBr (*B.* 37, 1652 *C.* 1904 [1] 1603).
 39) γ -Keto- δ -Phenyl- α -[2-Oxyphenyl]- α -Buten. Sd. 217—219°₁₂ (*B.* 37, 498 *C.* 1904 [1] 805).
 40) 4-Methyl-3-Aethyl-1,2- α -Naphtocumarin (β -Methyl- α -Aethyl- α -Naphtocumarin). Sm. 138° (*B.* 36, 1968 *C.* 1903 [2] 376).
 41) Acetat d. 2-Oxy- α -Diphenyläthen. Sd. 172—173°₉ (*B.* 36, 4003 *C.* 1904 [1] 174).
- C₁₆H₁₄O₆** *1) 3,6-Dimethyläther d. 3,4,6-Trioxypheanthren (Thebaol). Sm. 93 bis 94° (*B.* 35, 4400 *C.* 1903 [1] 341; *B.* 37, 3499 *C.* 1904 [2] 1320).
 *11) i- α -Phenyl- β -Benzoylpropionsäure (*Soc.* 85, 1360 *C.* 1904 [2] 1646).
 *12) Desylessigsäure. Sm. 161° (*Soc.* 83, 292 *C.* 1903 [1] 877).
 *24) Anhydrid d. Phenylessigsäure (*Ann.* 31, 265 *C.* 1904 [1] 1078).
 59) Methylläther d. 6-Oxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 141—142° (*B.* 37, 774 *C.* 1904 [1] 1155).
 60) Methylläther d. 7-Oxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 91° (*B.* 37, 1181 *C.* 1904 [1] 1275).
 61) γ -Oxy- α - β -Diphenylpropen- γ -Carbonsäure. Sm. 125°. Ag (*B.* 31, 2228, 2235; *B.* 36, 917 *C.* 1903 [1] 1030; *A.* 333, 232 *C.* 1904 [2] 1389). — *II, 1011.
 62) d- α -Phenyl- β -Benzoylpropionsäure. Sm. 176—178° (*Soc.* 85, 1368 *C.* 1904 [2] 1646).
 63) l- α -Phenyl- β -Benzoylpropionsäure (*Soc.* 85, 1368 *C.* 1904 [2] 1647).
- C₁₆H₁₄O₄** *9) 2-[4-Aethoxylbenzoyl]benzol-1-Carbonsäure. Sm. 135—136° (*B.* 36, 2967 *C.* 1903 [2] 1007).
 *16) α - β -Diphenyläthan-2,2'-Dicarbonsäure. Sm. 231°. K₂ (*B.* 37, 3218 *C.* 1904 [2] 1120).
 *21) Dimethylester d. Biphenyl-2,2'-Dicarbonsäure. Sm. 74,5° (*A.* 332, 70 *C.* 1904 [2] 42).
 *23) Dimethylester d. Biphenyl-3,3'-Dicarbonsäure. Sm. 104° (*A.* 332, 72 *C.* 1904 [2] 42).
 *30) Diphenylester d. Bernsteinsäure. Sm. 121°; Sd. 222,5°₁₅ (*B.* 35, 4073 *C.* 1903 [1] 73).
 *41) Dimethylester d. Biphenyl-4,4'-Dicarbonsäure. Sm. 214° (*A.* 332, 73 *C.* 1904 [2] 43).
 *43) α - β -Diphenyläthan-4,4'-Dicarbonsäure. Sm. noch nicht bei 320°. (NH₄)₂, Ba, Ag₂ (*B.* 37, 3215 *C.* 1904 [2] 1120).
 *48) Di[4-Methylphenylester] d. Oxalsäure (D.R.P. 137584 *C.* 1903 [1] 111).
 54) β -Oxy- β -Phenylakryl-3-Methoxyphenyläthersäure. Sm. 110° (*Soc.* 83, 1134 *C.* 1903 [2] 1060).
 55) Diacetat d. 3,4-Dioxybiphenyl. Sm. 77—77,5° (*Ann.* 29, 128 *C.* 1903 [1] 705).
- C₁₆H₁₄O₆** *1) Brasilin (*B.* 36, 840 *C.* 1903 [1] 973).
 20) 4'-Methoxydiphenylmethan-2,5-Dicarbonsäure. Sm. 265—266° (*B.* 36, 844 *C.* 1903 [1] 971).
 21) α -Oxy- α -Phenylessig-4-Aldehydo-2-Methoxyphenyläthersäure (Vanillinmandeläthersäure). Sm. 81—82° (D.R.P. 82924). — *III, 76.
 22) 1-Oxymethylbenzol-4-Aldehydo-2-Methoxyphenyläther-4-Carbonsäure. Sm. 195° (D.R.P. 82924). — *III, 76.
 23) Aldehyd d. Di[4-Oxybenzyl]äther-3,3'-Dicarbonsäure. Fl. (*B.* 37, 192 *C.* 1904 [1] 660).
- C₁₆H₁₄O₆** *2) Hesperitin (*Soc.* 85, 62 *C.* 1904 [1] 381, 729).
 *7) Dehydrodivanillin (*C.* 1904 [1] 587).
 21) Peroxyd d. 4-Oxybenzylmethyläther-1-Carbonsäure. Sm. 128° (*B.* 37, 3624 *C.* 1904 [2] 1500).
- C₁₆H₁₄O₇** *1) Lekanorsäure (*Bl.* [3] 31, 615 *C.* 1904 [2] 99; *C.* 1904 [2] 1504).
- C₁₆H₁₄O₈** *3) Gyrophorsäure (*J. pr.* [2] 68, 62 *C.* 1903 [2] 513).
 4) Pyrogallolsuccinein. HCl (*M.* 20, 450). — *II, 1224.
 5) Verbindung (aus Dehydracetsäure). Sm. 214—215° u. Zers. (*G.* 34 [1] 346 *C.* 1904 [2] 195).
- C₁₆H₁₄N₂** *21) 4-Methyl-2-[4-Amidophenyl]chinolin (Flavanilin). Sm. 97° (*C.* 1903 [1] 976).

- $C_{16}H_{14}N_2$ 43) 3,6-Diphenyl-*p*-Dihydro-1,2-Diazin. Sm. 202° (B. 36, 496 C. 1903 [1] 653).
 44) 3,6-Diphenyl-2,5-Dihydro-1,4-Diazin. Sm. 193° (A. 330, 231 C. 1904 [1] 944).
 45) 1-Methyl-4,5-Diphenylimidazol. Sm. 147° (B. 35, 4139 C. 1903 [1] 295).
 46) 4-[4-Amidobenzyl]isochinolin. Sm. 160—161° (2HCl, PtCl₄ + 4H₂O) (A. 326, 277 C. 1903 [1] 928).
 $C_{16}H_{14}N_4$ 47) Base (aus Acetanilid). Sm. 156°. HCl (D.R.P. 137121 C. 1903 [1] 107).
 $C_{16}H_{16}N$ 15) 4-Phenylazo-3-Methyl-1-Phenylpyrazol. Sm. 126° (B. 36, 3598 C. 1903 [2] 1378).
 $C_{16}H_{15}N_3$ 20) 10-Amido-9-Aethylantracen (A. 330, 174 C. 1904 [1] 891).
 $C_{16}H_{16}O$ *6) α -Keto- $\alpha\gamma$ -Diphenylbutan. Sm. 72° (74°); Sd. 200₁₈ (A. 330, 232 C. 1904 [1] 944; Am. 31, 655 C. 1904 [2] 446).
 $C_{16}H_{16}O_2$ 25) γ -Oxy- $\alpha\gamma$ -Diphenyl- α -Buten. Fl. (Am. 31, 659 C. 1904 [2] 447).
 *12) $\gamma\gamma$ -Diphenylbuttersäure. Sm. 107° (C. 1904 [1] 1416).
 *31) Aethyläther d. 6-Oxy-3-Methyldiphenylketon. Sm. 68° (B. 36, 3892 C. 1904 [1] 93).
 43) Methyläther d. Oxydimethyldiphenylketon (CH₃:CH₂:OH = 1:3:4). Sm. 52,5—53° (G. 33 [2] 63 C. 1903 [2] 996).
 44) Aethyläther d. γ -Keto- α -[2-Oxy-1-Naphtyl]- α -Buten. Sm. 112° (Bl. [3] 29, 881 C. 1903 [2] 885).
 45) Aethyläther d. 2-Oxy-2-Phenyl-1,2-Dihydrobenzofuran. Sm. 88—89° (B. 36, 4004 C. 1904 [1] 174).
 $C_{16}H_{16}O_3$ *10) Aethylester d. α -Oxydiphenyllessigsäure. Sd. 201°₂₁ (B. 37, 2766 C. 1904 [2] 708).
 22) α -Oxydi[4-Methylphenyl]essigsäure. Sm. 131—132° (C. r. 136, 1201 C. 1903 [2] 22).
 23) Aldehyd d. 3,4-Dioxybenzol-3-Aethyläther-4-Benzyläther-1-Carbonsäure. Sm. 57° (D.R.P. 85196). — *II, 75.
 $C_{16}H_{16}O_4$ 26) Methyläther d. α -Phenyl- α -[4-Oxyphenyl]propen. Sm. 54°; Sd. 312° (B. 36, 227 C. 1904 [1] 659).
 27) Diäthylester d. δ -Phenyl- $\alpha\gamma$ -Butenin- $\alpha\alpha$ -Dicarbonsäure. Fl. (B. 36, 3671 C. 1903 [2] 1313).
 28) 3-Methoxyl-4-Methylphenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 80—81° (D.R.P. 57941). — *II, 919.
 29) 2-Methoxyl-4-Methylphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 79—81° (D.R.P. 57941). — *II, 920.
 30) 2-Methoxyl-4-Methylphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 95° (D.R.P. 57941). — *II, 922.
 $C_{16}H_{16}O_5$ 31) Diacetat d. Podophylloresin. Sm. 198° (Soc. 73, 221). — *III, 474.
 6) Diacetat d. 5,7-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran (B. 37, 1800 C. 1904 [1] 1612).
 7) Diacetat d. 7,8-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran. Sm. 148° (B. 37, 1799 C. 1904 [1] 1612).
 $C_{16}H_{16}O_6$ 8) Diacetoxylnorcaren-carbonsäure. Sm. 216° (B. 36, 3507 C. 1903 [2] 1274).
 9) Acetat d. Purpurogallintrimethyläther. Sm. 140—143° (Soc. 83, 197 C. 1903 [1] 401, 639).
 $C_{16}H_{16}O_8$ C 57,1 — H 4,8 — O 38,1 — M. G. 336.
 1) 1,1,6-Triacetat d. 4,5,6-Trioxyl-2-Aethenyl-1-Dioxymethylbenzol-4,5-Methylenäther. Sm. 124° (B. 36, 1531 C. 1903 [2] 52).
 $C_{16}H_{16}O_{10}$ 2) Pentaacetat d. Pentaoxybenzol. Sm. 165° u. Zers. (B. 37, 123 C. 1904 [1] 586).
 $C_{16}H_{16}N_2$ 33) γ -Phenylhydrazon- α -[4-Methylphenyl]propen. Sm. 145° (B. 36, 851 C. 1903 [1] 975).
 34) Base (aus 2-Amido-5-Oxy-3,7,10-Trimethyl-5,10-Dihydroakridin). Sm. noch nicht bei 250° (Soc. 85, 532 C. 1904 [1] 1525).
 35) Verbindung (aus 2-Amido-5-Oxy-3,7,10-Trimethyl-5,10-Dihydroakridin) (C. 1904 [1] 677).
 $C_{16}H_{16}N_4$ 13) 6-[4-Dimethylamidobenzyliden]amidoindazol. Sm. 198—199° (B. 37, 2581 C. 1904 [2] 659).

- $C_{16}H_{16}N_6$ 4) 3,6-Di[4-Amidobenzyl]-1,2,4,5-Tetrazin. Sm. 166° (*B.* 35, 3939 *C.* 1903 [1] 39).
- $C_{16}H_{16}Br_2$ 6) $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3-Methylphenyl]äthan. Sm. 167—168° (*R.* 21, 456 *C.* 1903 [1] 503).
- $C_{16}H_{16}S$ 2) Äthyläther d. α -Merkapto- $\alpha\beta$ -Diphenyläthen. Sd. 190—200°₁₀ (*A.* 329, 51 Anm. *C.* 1903 [2] 1448).
- $C_{16}H_{16}S_2$ 4) Cyklodi-o-Xylylendisulfid (Disulfid d. 1,2-Di[Merkaptomethyl]benzol). Sm. 234—236° (*B.* 36, 186 *C.* 1903 [1] 467).
- $C_{16}H_{17}N$ *13) 2-Benzyl-1,2,3,4-Tetrahydroisochinolin. Oxalat (*B.* 36, 1162 *C.* 1903 [1] 1186).
- 14) α -Amido- $\alpha\gamma$ -Diphenyl- β -Buten. HCl, (2HCl, PtCl₄), Pikrat (*M.* 25, 438 *C.* 1904 [2] 336).
- 15) 4-[4-Äthylbenzyliden]amido-1-Methylbenzol. Sm. 49° (*C. r.* 136, 558 *C.* 1903 [1] 832).
- $C_{16}H_{17}N_6$ 12) 2-[2-Amidobenzyliden]amido-1-Äthylimidomethylbenzol. Sm. 152—153,5° 2HCl (*B.* 37, 3656 *C.* 1904 [2] 1514).
- $C_{16}H_{17}Cl$ 2) α -Chlor- $\alpha\alpha$ -Diphenylbutan. Fl. (*B.* 37, 1451 *C.* 1904 [1] 1352).
- $C_{16}H_{17}J_3$ 2) ρ -Jod-2-Methylphenyl-4-Äthylphenyljodoniumjodid. Sm. 90° (*A.* 327, 296 *C.* 1903 [2] 352).
- $C_{16}H_{18}O$ *7) α -Oxy- $\alpha\alpha$ -Diphenylbutan. Sm. 65°; Sd. 162—163°₁₁ (*B.* 37, 1451 *C.* 1904 [1] 1352).
- 9) β -Oxy- $\alpha\beta$ -Diphenylbutan. Sd. 179°₁₄ (*B.* 37, 1452 *C.* 1904 [1] 1352).
- $C_{16}H_{18}O_2$ *3) Diäthyläther d. 4,4'-Dioxybiphenyl. Sm. 176° (*A.* 332, 68 *C.* 1904 [2] 42).
- 14) Dimethyläther d. $\alpha\alpha$ -Di[4-Oxyphenyl]äthan. Sm. 59,4°; Sd. 352 bis 354°₇₀₇ (*C.* 1904 [1] 1650).
- 15) Dimethyläther d. 4,4'-Dioxy-3,3'-Dimethylbiphenyl. Sm. 145,5° (*Am.* 31, 121 *C.* 1904 [1] 809).
- 16) β -Äthyläther d. $\alpha\beta$ -Dioxy- $\alpha\alpha$ -Diphenyläthan. Sd. 209—210°₂₀ (*C. r.* 138, 91 *C.* 1904 [1] 505; *Bl.* [3] 31, 304 *C.* 1904 [1] 1133).
- 17) Diphenyläther d. $\alpha\delta$ -Dioxybutan. Sm. 98° (*C. r.* 138, 1048 *C.* 1904 [1] 1493).
- $C_{16}H_{18}O_3$ 12) Methyl ester d. Artemisinsäure. Fl. (*C.* 1903 [2] 1377).
- $C_{16}H_{18}O_4$ *4) 4,4'-Dimethyläther d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan (Isohydranisoïn). Sm. 109° (*B.* 37, 1677 *C.* 1904 [1] 1522).
- 13) $\alpha\beta$ -Dimethyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 220° u. Zers. (*A.* 335, 173, 186 *C.* 1904 [2] 1129).
- 14) $\alpha\beta$ -Dimethyläther d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan (*A.* 335, 174 *C.* 1904 [2] 1129).
- 15) Dimethyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Keto-1,4-Dihydrophenyl]äthan. Sm. 82° (*A.* 335, 172 *C.* 1904 [2] 1129).
- 16) Tetramethyläther d. 2,5,2',5'-Tetraoxybiphenyl. Sm. 104° (*A.* 332, 68 *C.* 1904 [2] 42).
- $C_{16}H_{18}O_7$ *3) Nataloïn. Sm. 202° (*Ar.* 241, 352 *C.* 1903 [2] 726).
- 4) Aloïn (Feroxaloïn). Sm. 142° (*Ar.* 241, 341 *C.* 1903 [2] 725).
- $C_{16}H_{18}N_2$ *6) *p*-Dimethylenditoluidin (oder $C_{16}H_{18}N_2$). Sm. 136° (*C.* 1903 [2] 238).
- 43) Methyl di[4-Methylphenyl]formamidin. Sm. 68—69° (*Soc.* 85, 996 *C.* 1904 [2] 831).
- 44) *m*-Dimethylenditoluidin (Anhydroformaldehyd-*m*-Toluidin). Sm. 148 bis 149° (*B.* 36, 42 *C.* 1903 [1] 504).
- 45) isom. *m*-Dimethylenditoluidin. Sm. 183—184° (*B.* 36, 42 *C.* 1903 [1] 504).
- 46) Base (aus 1,4-Anhydro-4-Methylamido-1-Oxymethylbenzol). Sm. 205 bis 210° u. Zers. 2HCl (*M.* 23, 988 *C.* 1903 [1] 289).
- $C_{16}H_{18}N_4$ *1) $\alpha\beta$ -Di[Phenylhydrazon]butan. Sm. 115—116° (*B.* 37, 2476 *C.* 1904 [2] 418).
- 18) 3,8-Di[Dimethylamido]diphenazon. Sm. 276°. HCl (*B.* 37, 31 *C.* 1904 [1] 524).
- $C_{16}H_{18}N_6$ C 65,3 — H 6,1 — N 28,6 — M. G. 294.
- 1) 3,6-Di[4-Amidobenzyl]-1,2-Dihydro-1,2,4,5-Tetrazin. Sm. 212° (*B.* 35, 3939 *C.* 1903 [1] 39).
- $C_{16}H_{18}J_2$ 3) Di[4-Äthylphenyl]jodoniumjodid. Sm. 42° (*A.* 327, 291 *C.* 1903 [2] 352).

- $C_{18}H_{18}J_2$ 4) 2,4'-Dimethyl-2'-Aethyldiphenyljodoniumjodid. Sm. 168° (*J. pr.* [2] 69, 444 *C.* 1904 [2] 590).
- 5) 2-Methylphenyl-4-Propylphenyljodoniumjodid. Zers. bei 123° (*A.* 327, 314 *C.* 1903 [2] 354).
- $C_{16}H_{16}N$ *6) Aethylbenzyl-4-Methylphenylamin. Sd. 226°₂₆. Pikrat (*B.* 37, 2726 *C.* 1904 [2] 592).
- $C_{16}H_{16}N_3$ 15) 4-Aethylamido-3-Methylbenzylidenphenylhydrazin. Sm. 95° (*B.* 37, 864 *C.* 1904 [1] 1207).
- 16) 4-Methyläthylamidobenzylidenphenylhydrazin. Sm. 114° (*B.* 37, 862 *C.* 1904 [1] 1206).
- $C_{16}H_{20}O$ 4) Benzylidenthujaketon. Sm. 170° (*B.* 30, 425). — *III, 140.
- $C_{16}H_{20}O_3$ 11) Rimusäure. Sm. 192—193°; Sd. 296—300°₂₁. Ba + 14H₂O (*C.* 1903 [2] 375; *Soc.* 85, 1242 *C.* 1904 [2] 1308).
- $C_{16}H_{20}O_6$ 8) Dimethylester d. γ -Oxy- α -Phenyl- α -Butenäthyläther- δ - δ -Dicarbon-säure. Na (*A.* 336, 202 *C.* 1904 [2] 1731).
- $C_{16}H_{20}O_8$ 10) Diacetat d. 3,6-Dioxy-2,5-Diisopropyl-1,4-Benzochinon. Sm. 137,5° (*B.* 37, 2389 *C.* 1904 [2] 308).
- $C_{16}H_{20}O_7$ 9) Triäthylester d. 6-Oxybenzol-1,3-Dicarbonsäure-4-Methylcarbon-säure. Sm. 81° (*B.* 37, 2119 *C.* 1904 [2] 438).
- $C_{16}H_{20}N_2$ *12) 4,4'-Di[Aethylamido]biphenyl. Sm. 115,5—116° (*B.* 35, 4182, 4190 *C.* 1903 [1] 142; *C.* 1903 [1] 1128; 1903 [2] 1271).
- *14) 4,4'-Di[Dimethylamido]biphenyl. Sm. 197° (198°). (2HBr, Br₂) (*B.* 37, 29 *C.* 1904 [1] 523; *B.* 37, 2343 *C.* 1904 [2] 433; *B.* 37, 3765 *C.* 1904 [2] 1546).
- $C_{16}H_{20}N_4$ *1) 3,3'-Di[Dimethylamido]azobenzol. + C₆H₆ (*B.* 35, 4228 Anm. *C.* 1903 [1] 207).
- $C_{16}H_{21}N$ 5) 4-Methyl-1-Isopropyl-1,2,3,4-Tetrahydrocarbazol. Sd. 202—204°₁₄. Pikrat (*C.* 1904 [2] 342).
- 6) 4-Methyl-7-Isopropylcarbazolenin. Sd. 170—171°₁₄. Pikrat (*C.* 1904 [2] 342).
- $C_{16}H_{22}O$ 3) β -Oxy- β -Phenyl- β - β -Dimethyl- β -Oktadien (α -Phenylgeraniol). Sd. 175 bis 176°₁₂ (D.R.P. 153120 *C.* 1904 [2] 624).
- $C_{16}H_{22}O_2$ 7) Benzot d. β -Oxy- α - oder - β -Nonen. Sd. 210—211°₅₀ (*Soc.* 83, 151 *C.* 1903 [1] 72, 436).
- $C_{16}H_{22}O_3$ 12) Aether d. 6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 99,5° (*Soc.* 83, 119 *C.* 1903 [1] 230, 445).
- 13) Methylester d. r-Santonigen Säure. Sm. 110,5—111° (*G.* 25 [1] 523). — *II, 978.
- $C_{16}H_{22}O_4$ *2) Methylester d. Santonsäure. Sm. 85° (*B.* 37, 260 *C.* 1904 [1] 643).
- *5) Methylester d. Parasantsäure. Sm. 183—184° (*C.* 1904 [1] 1446).
- $C_{16}H_{22}O_5$ 10) Methylester d. Oxyparasantsäure. Sm. 138—139° (*C.* 1903 [2] 1377).
- 11) Dimethylester d. 6-Ketododekahydrobiphenylen-3,4'-Dicarbon-säure. Sd. 255°₂₀ (*Soc.* 85, 429 *C.* 1904 [1] 1439).
- $C_{16}H_{22}O_7$ 6) Triäthylester d. 6-Oxy-1,4-Dihydrobenzol-1,3-Dicarbonsäure-4-Methylcarbon-säure. Sm. 82° (*B.* 37, 2118 *C.* 1904 [2] 437).
- 7) Triäthylester d. Glutakonylglutakonsäure. Sm. 77—78° (*C. r.* 136, 693 *C.* 1903 [1] 960).
- $C_{16}H_{22}O_{10}$ 3) Pentaacetat d. 1-Quercit. Sm. 124—125°. + C₆H₆ (Sm. 87—97°) (*Soc.* 85, 626 *C.* 1904 [2] 329).
- $C_{16}H_{22}O_{11}$ *2) Pentaacetat d. d-Glykose (*A.* 331, 373 *C.* 1904 [1] 1556).
- *3) isom. Pentaacetat d. d-Glykose (*A.* 331, 373 *C.* 1904 [1] 1556).
- $C_{16}H_{22}N_2$ *5) Phenylhydrazon d. Campher. Sd. 210°₁₇ (*B.* 36, 868 *C.* 1903 [1] 972).
- $C_{16}H_{22}N_4$ 9) 2,2'-Diamido-4,4'-Di[Dimethylamido]biphenyl. Sm. 166° (*B.* 37, 33 *C.* 1904 [1] 524).
- $C_{16}H_{24}O$ 8) Hexyl-2,4,6-Trimethylphenylketon. Sd. 172°₁₅ (*B.* 37, 930 *C.* 1904 [1] 1209).
- $C_{16}H_{24}O_2$ 8) α -Beljabetinolsäure. Sm. 96° (*Ar.* 240, 591 *C.* 1903 [1] 164).
- 9) β -Beljabetinolsäure. Sm. 96° (*Ar.* 240, 591 *C.* 1903 [1] 164).
- 10) α -Palabetinolsäure. Sm. 95° (*Ar.* 240, 581 *C.* 1903 [1] 163).
- 11) β -Palabetinolsäure. Sm. 95° (*Ar.* 240, 581 *C.* 1903 [1] 163).
- 12) Formiat d. Santalol. Sd. 175—178° (*C.* 1900 [2] 314). — *III, 414.

- $C_{16}H_{24}O_4$ 5) Methylester d. Santolsäure. Sm. 111—114° (B. 37, 260 C. 1904 [1] 643).
- 6) Aethylester d. β -[5-Keto-4-Methylhexahydrophenyl]propen-3-Acetessigsäure (Äc. d. Dihydrocarvonylacetessigsäure). Fl. (B. 37, 1668 C. 1904 [1] 1606).
- $C_{16}H_{24}O_6$ 9) Camphenglykolmonoglykuronsäure. K + $1\frac{1}{2}(2)H_2O$ (H. 37, 200 C. 1903 [1] 594).
- $C_{16}H_{24}O_{10}$ 5) $\beta\gamma\delta$ -Trimethylester- $\alpha\alpha$ -Diäthylester d. Butan- $\alpha\alpha\beta\gamma\delta$ -Pentacarbon-säure. Sm. 57—58° (B. 36, 3294 C. 1903 [2] 1167).
- $C_{16}H_{24}Br_2$ 1) $\alpha\beta$ -Dibrom- α -[2,4,6-Trimethylphenyl]heptan. Fl. (B. 37, 931 C. 1904 [1] 1209).
- $C_{16}H_{26}O$ 5) α -Oxy- α -[2,4,6-Trimethylphenyl]heptan. Sd. 194°₂₁ (B. 37, 931 C. 1904 [1] 1209).
- 6) Verbindung (aus Cadiuen u. Formaldehyd). Sd. 180°₁₅ (C. r. 138, 1229 C. 1904 [2] 106).
- 7) Verbindung (aus Caryophyllen u. Formaldehyd). Sd. 177—178°₁₅ (C. r. 138, 1228 C. 1904 [2] 106).
- 8) Verbindung (aus Cloven u. Formaldehyd). Sd. 170°₁₂ (C. r. 138, 1229 C. 1904 [2] 106).
- $C_{16}H_{16}O_2$ 14) 1-Menthylester d. $\alpha\gamma$ -Pentadien- α -Carbonsäure. Sd. 173°₁₄ (A. 327, 178 C. 1903 [1] 1396).
- $C_{16}H_{26}O_3$ *12) Isoamylester d. Camphocarbonsäure (B. 36, 1310 C. 1903 [1] 1225; B. 37, 2515 C. 1904 [2] 332; B. 37, 3947 C. 1904 [2] 1569).
- $C_{16}H_{26}O_4$ 4) Gurjoresinolsäure. Sm. 254—255°. Na (Ar. 241, 396 C. 1903 [2] 724).
- 5) Diacetat d. Glykol $C_{12}H_{22}O_2$. Sd. 166—170°₁₃ (M. 24, 159 C. 1903 [1] 957).
- $C_{16}H_{26}O_6$ 5) Triacetat d. 1,2-Dioxy-4-[α -Oxyisopropyl]-1-Methylhexahydro-benzol. Sd. 193—195°₂₀ (C. 1897 [2] 417). — *III, 712.
- $C_{16}H_{26}O_7$ 3) Monomenthylester d. Citronensäure (C. 1903 [1] 162; B. 37, 1380 C. 1904 [1] 1441).
- $C_{16}H_{26}O_8$ *16) Tetraäthylester d. β -Methylpropan- $\alpha\alpha\gamma\gamma$ -Tetracarbon-säure. Sd. 194—197°₁₄ (J. pr. [2] 68, 157 C. 1903 [2] 759).
- $C_{16}H_{28}O$ C 81,4 — H 11,8 — O 6,8 — M. G. 236.
- 1) Verbindung (aus Asclepias syriaca L.). Sm. 104—105° (J. pr. [2] 68, 407 C. 1904 [1] 105).
- $C_{16}H_{26}O_2$ 4) Santanolformaldehyd. Fl. (D.R.P. 148944 C. 1904 [1] 846).
- 5) Acetat d. 4-[β -Oxy- β -Aethylbutyl]-1,1,5-Trimethyl-2,3-Dihydro-R-Penten. Fl. (Bl. [3] 31, 464 C. 1904 [1] 1516).
- 6) 1-Menthylester d. α -Penten- α -Carbonsäure. Sd. 163—164°₁₄ (A. 327, 174 C. 1903 [1] 1396).
- 7) 1-Menthylester d. α -Penten- ϵ -Carbonsäure. Sd. 155—155,5°₁₄ (A. 327, 176 C. 1903 [1] 1396).
- 8) 1-Menthylester d. β -Penten- α -Carbonsäure. Sd. 149—150°₁₄ (A. 327, 175 C. 1903 [1] 1396).
- 9) 1-Menthylester d. β -Penten- ϵ -Carbonsäure. Sd. 156—157°₁₄ (A. 327, 176 C. 1903 [1] 1396).
- 10) 1-Menthylester d. R-Pentamethylenecarbon-säure. Sd. 160,5—161°₁₄ (A. 327, 183 C. 1903 [1] 1396).
- $C_{16}H_{30}O_2$ 10) Valerianat d. β -Oxy- α -oder- β -Undeken. Sd. 185—190°₅₀ (Soc. 83, 154 C. 1903 [1] 72, 436).
- 11) Capronat d. 1-Menthol. Sd. 153°₁₅ (B. 31, 364). — *III, 333.
- $C_{16}H_{30}O_6$ 9) Scammonolsäure (C. 1904 [2] 1226).
- $C_{16}H_{30}O_4$ 8) Aethylester d. α -Acetoxylundekan- α -Carbonsäure. Sd. 172—173°₁₈ (Bl. [3] 29, 1127 C. 1904 [1] 261).
- $C_{16}H_{30}O_5$ *1) Agaricensäure (D.R.P. 138713 C. 1903 [1] 546).
- $C_{16}H_{32}O_2$ *1) Palmitinsäure (M. 23, 941 C. 1903 [1] 297; B. 36, 1050 C. 1903 [1] 1148).
- *6) Aethylester d. Myristinsäure. Sd. 102° (B. 36, 4340 C. 1904 [1] 433).
- 16) Gallipharsäure. Sm. 54°. Ag (Ar. 242, 282 C. 1904 [1] 1654).
- $C_{16}H_{34}O$ *1) α -Oxyhexadekan. Sm. 49,3°; Sd. 182—184°_{9,5} (M. 25, 346 C. 1904 [1] 1399).
- $C_{16}H_{34}O_2$ 2) β -Dioxyhexadekan. Sd. 200°₁₂ (C. r. 136, 1677 C. 1903 [2] 419).

- $C_{16}H_8O_2N_2$ *2) 5,6-Diketo-5,6-Dihydro- $\alpha\beta$ -Naphthophenazin. Sm. 265° u. Zers. (B. 36, 3624 C. 1903 [2] 1383).
- $C_{16}H_8O_4N_4$ C 60,0 — H 2,5 — O 20,0 — N 17,5 — M. G. 320.
- 1) Nitril d. $\alpha\beta$ -Di[2-Nitrophenyl]äthen- $\alpha\beta$ -Dicarbonsäure. Zers. oberh. 210° (A. 332, 283 C. 1904 [2] 702).
 - 2) Nitril d. $\alpha\beta$ -Di[4-Nitrophenyl]äthen- $\alpha\beta$ -Dicarbonsäure. Sm. 268 bis 269° (A. 332, 279 C. 1904 [2] 701).
- $C_{16}H_8O_6N_4$ 4) isom. Dinitroindigo (M. 23, 1006 C. 1903 [1] 292).
- $C_{16}H_8O_6Br_4$ 1) Dimethyläther d. 2,4,6,8-Tetrabrom-1,3,5,7-Tetraoxy-9,10-Anthrachinon (D.R.P. 155633 C. 1904 [2] 1487).
- $C_{16}H_8O_7N_2$ 2) Anhydrid d. $\alpha\beta$ -Di[4-Nitrophenyl]äthen- $\alpha\beta$ -Dicarbonsäure. Sm. 197° (A. 332, 281 C. 1904 [2] 702).
- $C_{16}H_8O_8N_2$ C 53,9 — H 2,2 — O 35,9 — N 7,9 — M. G. 356.
- 1) Acetat d. p-Dinitro-3-Oxy-9,10-Phenanthrenchinon. Sm. 263—265° (A. 322, 158). — *III, 318.
- $C_{16}H_8O_9N_2$ C 51,6 — H 2,1 — O 38,7 — N 7,5 — M. G. 372.
- 1) Anhydröderivat d. 3-Nitrobenzol-1-Carbonsäure-2-Carbonsäurealdehyd. Sm. 248—251° (M. 24, 822 C. 1904 [1] 372).
 - 2) Anhydröderivat d. 4-Nitrobenzol-1-Carbonsäurealdehyd-2-Carbonsäure. Sm. 224—226° (M. 24, 817 C. 1904 [1] 372).
- $C_{16}H_8N_2Cl_2$ 2) 6,11-Dichlor- $\beta\beta$ -Naphthophenazin. Sm. 265° (A. 334, 360 C. 1904 [2] 1055).
- $C_{16}H_8O_2N$ 9) Naphthophenoxazon. Sm. 200—211° (B. 36, 1808 C. 1903 [2] 205).
- $C_{16}H_8O_3N$ 2) Oxyphenonaphthoxazon (B. 36, 1810 C. 1903 [2] 206).
- $C_{16}H_8O_5N$ *1) Gallorubin. Sm. bei 300°. + C_2H_6O (B. 37, 828 C. 1904 [1] 1152).
- $C_{16}H_{10}O_2N_2$ *1) Indigo. HCl (2HCl, PtCl₄), HBr, H₂SO₄, 2H₂SO₄ (C. 1903 [1] 640, 1138; D.R.P. 138177 C. 1903 [1] 211; A. 325, 196 C. 1903 [1] 467; D.R.P. 138903 C. 1903 [1] 549; D.R.P. 139567 C. 1903 [1] 745; M. 24, 13 C. 1903 [1] 776; Bl. [3] 29, 756 C. 1903 [2] 628).
- *3) Indirubin (B. 35, 4339 C. 1903 [1] 294; Bl. [3] 29, 756 C. 1903 [2] 628).
- *12) 5,6-Dioxy- $\alpha\beta$ -Naphthophenazin. Sm. 270° u. Zers. (B. 36, 3625 C. 1903 [2] 1383).
- 21) Oxim d. Naphthophenoxazon. HCl (B. 36, 1812 C. 1903 [2] 207).
- $C_{16}H_{10}O_2N_4$ 9) s-Di[3-Cyanphenylamid] d. Oxalsäure (C. 1904 [2] 102).
- $C_{16}H_{10}O_3N_2$ 6) Indenophenazinglykolsäure. Sm. 223—224° (B. 36, 3626 C. 1903 [2] 1383).
- $C_{16}H_{10}O_4N_4$ 6) Verbindung (aus Dioxychinopyrin). 2HCl (B. 37, 2136 C. 1904 [2] 233).
- $C_{16}H_{10}O_4N_6$ C 54,9 — H 2,8 — O 18,3 — N 24,0 — M. G. 350.
- 1) pp'-Tetrazoindigo (M. 24, 14 C. 1903 [1] 776).
- $C_{16}H_{10}O_5N_2$ 6) 2-[2-Nitro-4-Oxyphenyl]amido-1,4-Naphtochinon (B. 30, 2137). — *III, 275.
- $C_{16}H_{10}O_8N_2$ 4) $\alpha\beta$ -Di[2-Nitrophenyl]äthen- $\alpha\beta$ -Dicarbonsäure. Sm. 237,5° u. Zers. (A. 332, 284 C. 1904 [2] 702).
- $C_{16}H_{10}O_{10}N_2$ C 49,2 — H 2,6 — O 41,0 — N 7,2 — M. G. 390.
- 1) Dimethyläther d. p-Dinitro-1,3,5,7-Tetraoxy-9,10-Anthrachinon. Sm. oberh. 300° (D.R.P. 155633 C. 1904 [2] 1487).
- $C_{16}H_{11}ON_8$ 7) 2-[4-Oxy-1-Naphtyl]-2,1,3-Benztriazol. Sm. 203—204° (J. pr. [2] 67, 584 C. 1903 [2] 205).
- $C_{16}H_{11}O_2N$ 23) 6-Benzylidenamido-1,2-Benzpyron. Sm. 150—152° (Soc. 85, 1234 C. 1904 [2] 1124).
- $C_{16}H_{11}O_3N$ 32) 3,4-Methylenäther d. 3-Keto-2-[3,4-Dioxybenzyliden]-2,3-Dihydroindol. Sm. 221° (C. 1903 [1] 34).
- $C_{16}H_{11}O_8N_3$ 16) 4-Phenylazo-5-Phenylisoxazol-3-Carbonsäure. Sm. 217° (B. 37, 2206 C. 1904 [2] 323).
- $C_{16}H_{11}O_4N$ 12) α -Phthalamidophenyllessigsäure. Sm. 168° (B. 37, 1688 C. 1904 [1] 1524).
- 13) Verbindung (aus Chinolin u. Pyrogallolcarbonat). Sm. 103° (B. 37, 110 C. 1904 [1] 584).
- $C_{16}H_{11}O_4N_3$ 6) 8-Nitro-4-[4-Nitrobenzyl]isochinolin. Sm. 149—150° (A. 326, 283 C. 1903 [1] 928; A. 326, 285 C. 1903 [1] 929).
- $C_{16}H_{11}O_6N$ 4) Laktone d. α -Oxy- γ -Keto- α -Phenyl- β -[2-Nitrophenyl]propan- γ -Carbonsäure. Sm. 171° (A. 333, 235 C. 1904 [2] 1390).

- $C_{16}H_{11}O_6N$ *4) Berberidinsäure (*Soc.* 83, 620 *C.* 1903 [1] 1364).
 5) 2-Aethyläther d. 4-Nitro-1,2-Dioxy-9,10-Anthrachinon (D.R.P. 150322 *C.* 1904 [1] 1043).
- $C_{16}H_{11}N_4Cl_3$ 1) $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di[3-Cyanphenylamido]äthan. Sm. 165—167° (*C.* 1904 [2] 103).
- $C_{16}H_{11}N_4Br_3$ 2) $\beta\beta\beta$ -Tribrom- $\alpha\alpha$ -Di[3-Cyanphenylamido]äthan. Zers. bei 130° (*C.* 1904 [2] 103).
- $C_{16}H_{11}BrJ_2$ 1) 3-Bromphenyl-1-Naphtyljodoniumjodid. Sm. 133° u. Zers. (*J. pr.* [2] 69, 332 *C.* 1904 [2] 36).
- $C_{16}H_{11}Br_2J$ 1) 3-Bromphenyl-1-Naphtyljodoniumbromid. Sm. 156° (*J. pr.* [2] 69, 332 *C.* 1904 [2] 36).
- $C_{16}H_{12}ON_2$ *16) 2-Benzoyl-5-Phenylimidazol (Isoindileucin). Sm. 194—195° (*B.* 22, 2559; *B.* 35, 4135 *C.* 1903 [1] 295).
- $C_{16}H_{12}ON_4$ 3) Verbindung (aus Diacetonitril u. Isatin). Sm. oberh. 285° (*J. pr.* [2] 67, 511 *C.* 1903 [2] 252).
- $C_{16}H_{12}O_2N_2$ *10) Indigweiss (D.R.P. 137884 *C.* 1903 [1] 104).
 35) 6-Benzylidenhydrazido-1,2-Benzpyron. Sm. 190—194° (*Soc.* 85, 1236 *C.* 1904 [2] 1124).
 36) 4-[4-Nitrobenzyl]isochinolin. Sm. 128,5—129°. HNO_3 (*A.* 326, 273 *C.* 1903 [1] 928).
- $C_{16}H_{12}O_2N_4$ 12) pp'-Diamidoindigo (*M.* 24, 11 *C.* 1903 [1] 775; *M.* 24, 14 *C.* 1903 [1] 776).
 13) 4-Phenylazo-5-Phenylpyrazol-3-Carbonsäure. Sm. 247—248° u. Zers. (*B.* 37, 2207 *C.* 1904 [2] 323).
- $C_{16}H_{12}O_2Cl_2$ 3) Chlorid d. $\alpha\beta$ -Diphenyläthan-4,4'-Dicarbonsäure. Sm. 119° (*B.* 37, 3217 *C.* 1904 [2] 1120).
- $C_{16}H_{12}O_2Br_4$ 1) Dimethyläther d. $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 279 bis 280° (*B.* 36, 1889 *C.* 1903 [2] 291).
- $C_{16}H_{12}O_2Br_6$ 1) Dimethyläther d. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]-äthan. Sm. 228—230° u. Zers. (*B.* 36, 1888 *C.* 1903 [2] 291).
- $C_{16}H_{12}O_3N_2$ 19) Methylster d. 1-Keto-2-Phenyl-1,2-Dihydro-2,3-Benzdiazin-4-Carbonsäure. Sm. 114° (*B.* 21, 1611; *M.* 25, 395 *C.* 1904 [2] 324).
 — IV, 718.
 20) Phenylimid d. 3-Acetylamidobenzol-1,2-Dicarbonsäure. Sm. 191° (*B.* 37, 2611 *C.* 1904 [2] 522).
- $C_{16}H_{12}O_4N_2$ *1) Isatyd. Sm. 245° u. Zers. (217°?) (*B.* 12, 1309; 34, 1541; *B.* 37, 943 *C.* 1904 [1] 1217).
 *9) Diacetat d. 2,3-Dioxy-5,10-Naphtdiazin. Sm. 226° (*B.* 35, 4305 *C.* 1903 [1] 344).
 18) 8-Nitro-1-Aethylamido-9,10-Anthrachinon (D.R.P. 144634 *C.* 1903 [2] 750).
 19) Phenylazobenzoylbrenztraubensäure. Zers. bei 140—150° (*B.* 37, 2208 *C.* 1904 [2] 323).
- $C_{16}H_{12}O_4N_4$ 8) 5-Methyl-1-Phenyl-3-[3,5-Dinitrophenyl]pyrazol. Sm. 179° (*J. pr.* [2] 69, 467 *C.* 1904 [2] 596).
- $C_{16}H_{12}O_5N_4$ 5) 4,8-Dinitro-1,5-Di[Methylamido]-9,10-Anthrachinon (D.R.P. 144634 *C.* 1903 [2] 750).
- $C_{16}H_{12}O_6N_2$ 8) Di[2-Nitrophenylester] d. Bernsteinsäure. Sm. 162° (*B.* 35, 4082 *C.* 1903 [1] 74).
 9) Di[3-Nitrophenylester] d. Bernsteinsäure. Sm. 153° (*B.* 35, 4082 *C.* 1903 [1] 74).
 10) Di[4-Nitrophenylester] d. Bernsteinsäure. Sm. 178° (*B.* 35, 4082 *C.* 1903 [1] 74).
- $C_{16}H_{12}ON$ *2) 9-Acetylamidoanthracen. Sm. 273—274° (*A.* 330, 166 *C.* 1904 [1] 891).
 *27) Nitril d. α -Phenyl- β -Benzoylpropionsäure. Sm. 126—127° (*Soc.* 85, 1355 *C.* 1904 [2] 1646).
 38) 2-[4-Oxyphenyl]amidonaphtalin. Sm. 135° (*C.* 1904 [1] 1013).
 39) 3-[2-Oxybenzyliden]-2-Methylindol. HCl (*B.* 37, 323 *C.* 1904 [1] 668).
 40) 7-Oxy-2-Methyl-4-Phenylehinolin. Sm. 262°. $HCl + 1\frac{1}{2}H_2O$, (2HCl, $PtCl_4$), H_2SO_4 , $H_2Cr_2O_7$, Pikrat, Oxalat + H_2O (*B.* 36, 2453 *C.* 1903 [2] 670).

- $C_{16}H_{13}ON$ 41) 4-[4-Oxybenzyl]isochinolin. Sm. 238° (2 HCl, $PtCl_4 + 2 H_2O$) (A. 326, 289 C. 1903 [1] 929).
- $C_{16}H_{13}ON_3$ *2) 4-Amido-1-[4-Oxyphenylazo]naphtalin. Zers. bei 200° (B. 36, 4149 C. 1904 [1] 186).
- $C_{16}H_{13}O_2N$ *2) 10-Nitro-9-Aethylantracen. Sm. 135° (A. 330, 173 C. 1904 [1] 891).
- *30) β -Cyan- $\alpha\beta$ -Diphenylpropionsäure? Sm. 196—198° (B. 37, 4067 C. 1904 [2] 1651).
- 35) 1-Methylamido-2-Methyl-9,10-Anthrachinon. Sm. 114° (D.R.P. 144634 C. 1903 [2] 750).
- 36) 4-Amido-1-Benzoyl-2-Methylbenzfuran. Sm. 138° (B. 36, 1261 C. 1903 [1] 1184).
- 37) Methyläther d. 5-Phenyl-3-[4-Oxyphenyl]isoxazol. Sm. 121° (Soc. 85, 1326 C. 1904 [2] 1645).
- 38) Methyläther d. 4-Oxy-1-Keto-3-Phenyl-1,2-Dihydroisochinolin. Sm. 235—240° (B. 20, 2868; B. 37, 1690 C. 1904 [1] 1524).
- 39) 2-Cinnamylidenamidobenzol-1-Carbonsäure. Sm. 163—164° (B. 37, 595 C. 1904 [1] 881).
- 40) Phenylimid d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 137—138° (Soc. 85, 1367 C. 1904 [2] 1646).
- $C_{16}H_{13}O_2N_3$ *19) Nitril d. 2,6-Diketo-4-[4-Isopropylphenyl]-1,2,3,6-Tetrahydropyridin-3,5-Dicarbonsäure. NH_4 , $Cu + 8 H_2O$, Ag, Coniinsalz (A. 325, 213 C. 1903 [1] 439).
- 22) 4-[3-Nitro-4-Amidobenzyl]isochinolin. Sm. 231—232° (A. 326, 281 C. 1903 [1] 928).
- 23) Methylester d. 1,5-Diphenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 135—136° (B. 35, 4048 C. 1903 [1] 169).
- 24) Benzoat d. 5-Oxy-4-Methyl-1-Phenyl-1,2,3-Triazol. Sm. 91° (A. 335, 94 C. 1904 [2] 1232).
- $C_{16}H_{13}O_2N_5$ 3) 4-Semicarbazon-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. 205,5° (B. 36, 1135 C. 1903 [1] 1254).
- $C_{16}H_{13}O_2Cl$ *1) β -Chlor- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien (α -Chlordiphenacyl). Sm. 117° (B. 36, 2395 C. 1903 [2] 498).
- *2) isom. β -Chlor- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien (β -Chlordiphenacyl). Sm. 155° (B. 36, 2395 C. 1903 [2] 498).
- 6) δ -Chlordiphenacyl. Sm. 189° (B. 36, 2403 C. 1903 [2] 499).
- $C_{16}H_{13}O_2Br$ *2) isom. β -Brom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien (β -Bromdiphenacyl). Sm. 161° (B. 36, 2395 C. 1903 [2] 498).
- *3) β -Brom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien (α -Bromdiphenacyl). Sm. 129° (B. 36, 2395 C. 1903 [2] 498).
- $C_{16}H_{13}O_2J$ 5) β -Jod- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien (α -Joddiphenacyl). Sm. 90° u. Zers. (B. 36, 2407 C. 1903 [2] 500).
- 6) isom. β -Jod- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien (β -Joddiphenacyl). Sm. 105° (B. 32, 533; B. 36, 2409 C. 1903 [2] 500). — *III, 229.
- 7) isom. β -Jod- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien (δ -Joddiphenacyl). Sm. 150—153° (B. 36, 2411 C. 1903 [2] 500).
- 8) β -Jod- $\alpha\delta$ -Diketo- $\alpha\delta$ -Diphenylbutan (γ -Joddiphenacyl). Sm. 121° (B. 36, 2407 C. 1903 [2] 499).
- $C_{16}H_{13}O_3N$ *2) 10-Nitro-9-Keto-10-Aethyl-9,10-Dihydroanthracen. Sm. 102° (A. 330, 176 C. 1904 [1] 891).
- 27) 3,4-Methylenäther d. Methyl-4-[3,4-Dioxybenzyliden]amido-phenylketon. Sm. 147° (B. 37, 393 C. 1904 [1] 657).
- 28) 3,4-Methylenäther d. γ -Keto- γ -[4-Amidophenyl]- α -[3,4-Dioxyphenyl]propen. Sm. 198—200° (B. 37, 393 C. 1904 [1] 657).
- 29) 4-Aethylamido-1-Oxy-9,10-Anthrachinon (D.R.P. 154353 C. 1904 [2] 1013).
- 30) 6,7-Dioxy-1-Keto-2-Benzyl-1,2-Dihydroisochinolin. Sm. 225° (B. 37, 531 C. 1904 [1] 819).
- 31) Phenylamidoformiat d. 4-Oxymethylbenzfuran. Sm. 90° (B. 37, 201 C. 1904 [1] 661).
- 32) 4-Aethoxyphenylimid d. Benzol-1,2-Dicarbonsäure (2 isom. Formen). Sm. 206,5° (B. 36, 1002 C. 1903 [1] 1132).
- $C_{16}H_{13}O_3N_3$ 10) δ -Phenylazo- γ -Keto- α -[4-Nitrophenyl]- α -Buten. Sm. 210° u. Zers. (B. 36, 1450 C. 1903 [1] 1345).

- $C_{16}H_{13}O_3N_3$ 11) 6-Keto-2-Phenyl-4-[3-Nitrophenyl]-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. 192—193° (*Soc.* 83, 719 *C.* 1903 [2] 54).
 12) Acetat d. 3-Acetylamido-2-Oxy-5,10-Naphtdiazin. Sm. 230° (*B.* 35, 4305 *C.* 1903 [1] 344).
- $C_{16}H_{13}O_3N_5$ *2) 5-Keto-4-[4-Nitrophenyl]azo-3-Methyl-1-Phenyl-4,5-Dihydro-pyrazol. Sm. 198° (*C. r.* 139, 135 *C.* 1904 [2] 588).
- $C_{16}H_{13}O_3Cl$ 1) Methyl ester d. α -Benzoyl- α -[4-Chlorphenyl]essigsäure. Sm. 176° (*J. pr.* [2] 67, 387 *C.* 1903 [1] 1357).
- $C_{16}H_{13}O_3Br$ 2) $\alpha\gamma$ -Lakton d. β -Brom- $\alpha\gamma$ -Dioxy- $\beta\gamma$ -Diphenylbuttersäure. Sm. 105° u. Zers. (*A.* 333, 233 *C.* 1904 [2] 1390).
- $C_{16}H_{13}O_4N$ 23) 4-Methyläther d. β -Oximido- $\alpha\gamma$ -Diketo- α -Phenyl- γ -[4-Oxyphenyl]-propan. Sm. 127° (*B.* 37, 1535 *C.* 1904 [1] 1609).
 24) 6-Methyläther d. 3-Oximido-6-Oxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 160° u. Zers. (*B.* 37, 775 *C.* 1904 [1] 1155).
 25) 7-Methyläther d. 3-Oximido-7-Oxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 188° u. Zers. (*B.* 37, 1181 *C.* 1904 [1] 1275).
 26) Acetat d. 10-Nitro-9-Oxy-9,10-Dihydroanthracen. Sm. 120° u. Zers. (*A.* 330, 158 *C.* 1904 [1] 890).
- $C_{16}H_{13}O_5N$ 10) α -Benzoylamidophenylelessigsäure- α^2 -Carbonsäure. Sm. 162—163° (*B.* 37, 1690 *C.* 1904 [1] 1524).
- $C_{16}H_{13}O_5N_3$ *1) 9,9,10-Trinitro-10-Aethyl-9,10-Dihydroanthracen. Sm. 136° u. Zers. (*A.* 330, 175 *C.* 1904 [1] 891).
 3) Diacetat d. 6-Nitro-3,3'-Dioxyazobenzol. Sm. 141° (*J. pr.* [2] 67, 268 *C.* 1903 [1] 1221).
- $C_{16}H_{13}N_2Cl$ 2) Nitril d. β -Imido- γ -Phenyl- α -[4-Chlorphenyl]buttersäure. Sm. 67 bis 70° (*J. pr.* [2] 67, 392 *C.* 1903 [1] 1357).
- $C_{16}H_{13}N_4Cl$ 1) 5-Chlor-4-Phenylazo-3-Methyl-1-Phenylpyrazol. Sm. 109° (*B.* 36, 3597 *C.* 1903 [2] 1378).
- $C_{16}H_{14}ON_2$ *19) 3-[4-Methylphenyl]imido-2-Keto-5-Methyl-2,3-Dihydroindol. Sm. 259° (*A.* 332, 261 *C.* 1904 [2] 699).
 *37) 2,5-Di[2-Methylphenyl]-1,3,4-Oxdiazol. Sm. 121°. + 2AgNO₃ (*J. pr.* [2] 69, 374 *C.* 1904 [2] 535).
 *38) 2,5-Di[3-Methylphenyl]-1,3,4-Oxdiazol. Sm. 72°. + AgNO₃ (*J. pr.* [2] 69, 376 *C.* 1904 [2] 535).
 *39) 2,5-Dibenzyl-1,3,4-Oxdiazol. Sm. 98° (*J. pr.* [2] 69, 378 *C.* 1904 [2] 535).
 50) 2,5-Di[4-Methylphenyl]-1,3,4-Oxdiazol. Sm. 175°. + AgNO₃ (*J. pr.* [2] 69, 377 *C.* 1904 [2] 535).
 51) Methyläther d. 3-Phenyl-5-[4-Oxyphenyl]pyrazol. Sm. 170° (*C. r.* 136, 1264 *C.* 1903 [2] 122).
 52) 6-Keto-2,4-Diphenyl-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. 180°. (2HCl, PtCl₄) (*Soc.* 83, 377 *C.* 1903 [1] 845, 1144; *Soc.* 83, 722 *C.* 1903 [2] 54).
- $C_{16}H_{14}ON_4$ *1) 5-Keto-4-Phenylhydrazon-3-Methyl-1-Phenyl-4,5-Dihydro-pyrazol. Sm. 156° (*B.* 36, 2687 *C.* 1903 [2] 1009; *J. pr.* [2] 70, 379 *C.* 1904 [2] 1719).
 8) 5-Acetylamido-1,4-Diphenyl-1,2,3-Triazol. Sm. 172° (*B.* 35, 4058 *C.* 1903 [1] 171).
 9) 3-Acetylamido-1,5-Diphenyl-1,2,4-Triazol. HCl (*Am.* 29, 78 *C.* 1903 [1] 523).
- $C_{16}H_{14}OBr_2$ 6) Methyläther d. β,β -Dibrom- α -Phenyl- α -[4-Oxyphenyl]propen. Sm. 98—99° (*B.* 37, 229 *C.* 1904 [1] 659).
- $C_{16}H_{14}O_2N_2$ *1) $\alpha\beta$ -Di[Benzoylamido]äthen. Sm. 202—203° (*B.* 37, 3115 *C.* 1904 [2] 1316).
 43) 1,5-Di[Methylamido]-9,10-Anthrachinon (D.R.P. 144634 *C.* 1903 [2] 750; *B.* 37, 70 *C.* 1904 [1] 666; D.R.P. 156056 *C.* 1904 [2] 1631).
 44) 1,8-Di[Methylamido]-9,10-Anthrachinon (D.R.P. 144634 *C.* 1903 [2] 750; D.R.P. 156056 *C.* 1904 [2] 1631).
 45) 3,3'-Diacylazobenzol. Sm. 105° (*C.* 1903 [2] 112).
 46) 4-Oxy-3-Keto-1-Methyl-2,5-Diphenyl-2,3-Dihdropyrazol. Sm. 221° (*B.* 36, 1137 *C.* 1903 [1] 1254).
 47) γ -Phenylhydrazon- α -Phenylpropen- γ -Carbonsäure. Sm. 158° (*B.* 36, 2528 *C.* 1903 [2] 496).

- $C_{18}H_{14}O_2N_2$ 48) Methylester d. Azobenzol-4-Akrylsäure. Sm. 145° (*C. r.* 135, 1117 *C.* 1903 [1] 286).
 49) 3,3'-Dimethyl-4,4'-Biphenylenamid d. Oxalsäure. Sm. 335° (*M.* 25, 385 *C.* 1904 [2] 320).
- $C_{18}H_{14}O_2Cl_2$ 3) $\gamma\gamma$ -Dichlor- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 164° (*B.* 36, 2400 *C.* 1903 [2] 498).
- $C_{18}H_{14}O_2Br_2$ 6) $\gamma\gamma$ -Dibrom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 145° u. Zers. (*B.* 36, 2402 *C.* 1903 [2] 499).
 7) Acetat d. $\alpha\beta$ -Dibrom-2-Oxy- $\alpha\alpha$ -Diphenyläthan. Sm. 83° (*B.* 36, 4003 *C.* 1904 [1] 174).
- $C_{18}H_{14}O_2S_2$ 2) Disulfid d. 1-Methylbenzol-2-Thiolcarbonsäure. Sm. 62—75° (*B.* 36, 1012 *C.* 1903 [1] 1078).
 3) Disulfid d. 1-Methylbenzol-4-Thiolcarbonsäure. Sm. 116° (*B.* 36, 1012 *C.* 1903 [1] 1078).
- $C_{18}H_{14}O_3N_2$ 26) α -Acetyl- $\alpha\beta$ -Dibenzoylhydrazin. Sm. 169—170° (*J. pr.* [2] 70, 275 *C.* 1904 [2] 1544).
 27) 3,3'-Diacetylazoxybenzol. Sm. 137,5° (130—131°) (*C.* 1903 [2] 112; *B.* 36, 1618 *C.* 1903 [2] 36).
 28) 2,5-Diketo-1-Phenyl-4-[4-Oxybenzyl]tetrahydroimidazol. Sm. 184° (*B.* 36, 3345 *C.* 1903 [2] 1176).
 29) 3-Aethylester d. Azobenzol-3-Carbonsäure-3'-Carbonsäurealdehyd. Sm. 156° (*B.* 36, 3474 *C.* 1903 [2] 1269).
 30) 4-Aethylester d. Azobenzol-4-Carbonsäure-4'-Carbonsäurealdehyd. Sm. 60° (*B.* 36, 3475 *C.* 1903 [2] 1270).
 31) Benzoylamid d. Benzoylamidoessigsäure. Sm. 179° (*Soc.* 81, 1532 *C.* 1903 [1] 157).
- $C_{18}H_{14}O_3N_4$ 12) γ -Phenylhydrazon- δ -Oximido- α -[3-Nitrophenyl]- α -Buten. Sm. 99 bis 100° (*C.* 1904 [1] 28; *A.* 330, 253 *C.* 1904 [1] 946).
- $C_{18}H_{14}O_3Br_2$ 1) $\beta\gamma$ -Dibrom- α -Oxy- $\beta\gamma$ -Diphenylbuttersäure. Zers. bei 144° (*A.* 333, 233 *C.* 1904 [2] 1390).
 2) 4-Acetat d. 3,5-Dibrom- α ,4-Dioxydiphenylmethan- α -Methyläther. Sm. 97° (*A.* 334, 382 *C.* 1904 [2] 1052).
- $C_{18}H_{14}O_4N_2$ 15) $\alpha\beta$ -Dibenzoylhydrazidoessigsäure. Sm. 195° u. Zers. *Ag* (*J. pr.* [2] 70, 277 *C.* 1904 [2] 1544).
 16) $\alpha\beta$ -Di[2-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (*A.* 332, 270 *C.* 1904 [2] 700).
 17) isom. $\alpha\beta$ -Di[2-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (*A.* 332, 270 *C.* 1904 [2] 700).
 18) $\alpha\beta$ -Di[4-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (*A.* 332, 282 *C.* 1904 [2] 702).
 19) polym. 3-Methylenamidobenzol-1-Carbonsäure. Sm. 175—200° (*B.* 36, 51 *C.* 1903 [1] 505).
 20) Dimethylester d. Azobenzol-2,2'-Dicarbonsäure. Sm. 101° (*A.* 326, 346 *C.* 1903 [1] 1130).
 21) Dimethylester d. Azobenzol-3,3'-Dicarbonsäure. Sm. 163° (corr.) (*A.* 326, 343 *C.* 1903 [1] 1130).
 22) Dimethylester d. Azobenzol-4,4'-Dicarbonsäure. Sm. 242° (corr.) (*A.* 326, 338 *C.* 1903 [1] 1130).
 23) Diacetat d. 3,3'-Dioxyazobenzol. Sm. 137° (*J. pr.* [2] 67, 267 *C.* 1903 [1] 1221).
 24) Acetylderivat d. Verb. $C_{14}H_{12}O_3N_2$ (*J. pr.* [2] 70, 330 *C.* 1904 [2] 1541).
- $C_{18}H_{14}O_4N_4$ 9) γ -Phenylhydrazon- α -[2,4-Dinitrophenyl]- α -Buten. Sm. 191° (*M.* 23, 1006 *C.* 1903 [1] 292).
- $C_{18}H_{14}O_4Cl_4$ 1) $\alpha\beta$ -Dimethyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]-äthan. Sm. 242° (*A.* 325, 56 *C.* 1903 [1] 462).
 2) $\alpha\beta$ -Dimethyläther d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 168° (*A.* 325, 57 *C.* 1903 [1] 462).
- $C_{18}H_{14}O_4Br_2$ 3) Verbindung (aus ?-Brom-8-Oxy-5,7-Dimethylfluoron). Sm. 117—118° (*M.* 25, 329 *C.* 1904 [1] 1495).
- $C_{18}H_{14}O_4Br_4$ 1) $\alpha\beta$ -Dimethyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]-äthan. Sm. 209° (*A.* 325, 37 *C.* 1903 [1] 461).
 2) $\alpha\beta$ -Dimethyläther d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan? Sm. 160° (*A.* 325, 38 *C.* 1903 [1] 461).

- C₁₆H₁₄O₈S₂** 5) Dibenzyldisulfid- $\alpha\alpha'$ -Dicarbonsäure. Sm. 198—200° (*C.* 1903 [2] 1272).
- C₁₆H₁₄O₄S₃** 2) Dibenzyltrisulfid- $\alpha\alpha'$ -Dicarbonsäure (Trithiodiphenyllessigsäure). Sm. 145—148° (*C.* 1903 [2] 1271).
- C₁₆H₁₄O₆N₂** *4) Dimethylester d. Azoxybenzol-2, 2'-Dicarbonsäure. Sm. 117° (corr.) (*A.* 326, 346 *C.* 1903 [1] 1130).
- 9) α -Phenyl- β -[2-Diazo-3-Oxy-4-Methoxyphenyl]akrylsäure. Zers. bei 150° (*B.* 35, 4413 *C.* 1903 [1] 343).
- 10) Dimethylester d. Azoxybenzol-3, 3'-Dicarbonsäure. Sm. 134° (136—136,5°) (*A.* 326, 344 *C.* 1903 [1] 1130; *B.* 36, 2313 *C.* 1903 [2] 430).
- 11) Dimethylester d. Azoxybenzol-4, 4'-Dicarbonsäure. Sm. 207° (corr.) (*A.* 326, 340 *C.* 1903 [1] 1130; *B.* 36, 2314 *C.* 1903 [2] 430).
- 12) Diacetat d. 4, 4'-Dioxyazoxybenzol. Sm. 169° (*B.* 36, 4150 *C.* 1904 [1] 187).
- C₁₆H₁₄O₆N₂** 13) Dimethyläther d. β -Diamido-1, 3, 5, 7-Tetraoxy-9, 10-Anthrachinon (D. R. P. 155633 *C.* 1904 [2] 1487).
- C₁₆H₁₄O₁₀N₄** C 45,5 — H 3,3 — O 37,9 — N 13,3 — M. G. 422.
- 1) Dimethyläther d. β -Tetranitro-4, 4'-Dioxy-3, 3'-Dimethylbiphenyl. Sm. 130,5° (*Am.* 31, 127 *C.* 1904 [1] 809).
- C₁₆H₁₄NCl** *4) Chlorbenzylat d. Chinolin. Sm. 170° (*Bl.* [3] 29, 135 *C.* 1903 [1] 584).
- C₁₆H₁₄N₂S** *1) 2, 5-Dibenzyl-1, 3, 4-Thiodiazol. Sm. 98° (*J. pr.* [2] 69, 381 *C.* 1904 [2] 535).
- *3) 2, 5-Di[4-Methylphenyl]-1, 3, 4-Thiodiazol. Sm. 156—158° (*J. pr.* [2] 69, 380 *C.* 1904 [2] 535).
- C₁₆H₁₄N₂Se** 1) 3, 5-Di[4-Methylphenyl]-1, 2, 4-Selendiazol. Sm. 116° (*B.* 37, 2553 *C.* 1904 [2] 520).
- C₁₆H₁₄N₄S** 2) 5-Merkapto-4-Phenylazo-3-Methyl-1-Phenylpyrazol (*B.* 37, 2775 *C.* 1904 [2] 711).
- C₁₆H₁₆ON** *6) anti- α -Oximido- $\alpha\gamma$ -Diphenyl- β -Buten. Sm. 78° (*B.* 37, 731 *C.* 1904 [1] 1012; *M.* 25, 435 *C.* 1904 [2] 336).
- 31) γ -Oximido- $\alpha\beta$ -Diphenyl- α -Buten. Sm. 153° (*M.* 19, 410; 20, 739; 22, 667). — *III, 185.
- 32) syn- α -Oximido- $\alpha\gamma$ -Diphenyl- β -Buten. Sm. 134° (*B.* 37, 732 *C.* 1904 [1] 1012; *M.* 25, 433 *C.* 1904 [2] 336).
- 33) γ -Keto- γ -[4-Amidophenyl]- α -[4-Methylphenyl]propen. HCl (*B.* 37, 393 *C.* 1904 [1] 657).
- 34) d-1-Benzoyl-2-Methyl-2, 3-Dihydroindol. Sm. 119° (*Soc.* 85, 1335 *C.* 1904 [2] 1657).
- 35) l-1-Benzoyl-2-Methyl-2, 3-Dihydroindol. Sm. 119° (*Soc.* 85, 1333 *C.* 1904 [2] 1657).
- 36) Methyläther d. 3-Methyl-2-[4-Oxyphenyl]indol. Sm. 123° (*B.* 37, 870 *C.* 1904 [1] 1154).
- 37) Benzyloxydhydrat d. Chinolin. Chlorid, d-Campfersulfonat (*Bl.* [3] 29, 135 *C.* 1903 [1] 584).
- 38) Phenylamid d. β -Phenylpropen- α -Carbonsäure. Sm. 121° (*B.* 37, 734 *C.* 1904 [1] 1012; *C. r.* 138, 987 *C.* 1904 [1] 1439).
- 39) Phenylamid d. Phenylisocrotonsäure. Sm. 89—90° (*B.* 37, 2001 *C.* 1904 [2] 24).
- C₁₆H₁₅ON₃** 15) 5-Oxy-1-Phenyl-3-[β -Phenyläthyl]-1, 2, 4-Triazol. Sm. 182—183° (*B.* 36, 1102 *C.* 1903 [1] 1140).
- C₁₆H₁₅OCl** 2) γ -Chlor- α -Keto- α -Phenyl- β -Methylpropan. Sm. 83° (*Am.* 31, 656 *C.* 1904 [2] 446).
- C₁₆H₁₅OBr** 1) Methyläther d. β -Brom- α -Phenyl- α -[4-Oxyphenyl]propen. Sm. 51 bis 52° (*B.* 37, 228 *C.* 1904 [1] 659).
- C₁₆H₁₅O₂N** *35) Imid d. Phenyllessigsäure. Sm. 195° (*B.* 36, 747 *C.* 1903 [1] 827).
- 50) γ -[3-Oxyphenyl]imido- α -Oxy- α -Phenyl- α -Buten. Sm. 160° (*B.* 36, 2451 *C.* 1903 [2] 670).
- 51) 4-Propionylamidodiphenylketon. Sm. 139° (*C.* 1903 [1] 1137).
- 52) 4-Acetyl-amido-3-Methyldiphenylketon. Sm. 175° (*Soc.* 85, 593 *C.* 1904 [1] 1554).
- 53) 6-Acetyl-amido-3-Methyldiphenylketon. Sm. 159° (*Soc.* 85, 595 *C.* 1904 [1] 1554).
- 54) Aethyl-4-Benzoylamidophenylketon. Sm. 190° (*C.* 1903 [1] 1223).

- $C_{16}H_{15}O_2N$ 55) 3-Keto-1-Oxy-2-Aethyl-1-Phenyl-1,2-Dihydroisindol. Sm. 166 bis 167°. HCl (*B.* 37, 388 *C.* 1904 [1] 669).
- $C_{16}H_{15}O_2N_3$ 23) Benzylidenhydrazid d. 2-Acetylamidobenzol-1-Carbonsäure. Sm. 180° u. Zers. (*J. pr.* [2] 69, 98 *C.* 1904 [1] 729).
- $C_{16}H_{15}O_3N$ *18) *r*- α -Benzoylamido- β -Phenylpropionsäure. Sm. 185° (*B.* 36, 4313 *C.* 1904 [1] 448).
- 49) 10-Nitro-9-Oxy-9-Aethyl-9,10-Dihydroanthracen. Sm. 166° u. Zers. (*A.* 330, 172 *C.* 1904 [1] 891).
- 50) 3-Methyläther d. Methyl-4-[3,4-Dioxybenzyliden]amidophenylketon. Sm. 167° (*B.* 37, 396 *C.* 1904 [1] 658).
- 51) γ -Oximido- $\alpha\gamma$ -Diphenylbuttersäure. Sm. 83–87°. + C_6H_6 (*Soc.* 85, 1364 *C.* 1904 [2] 1646).
- 52) Methylester d. 4-Benzoyl-2-Methylphenylamidoameisensäure. Sm. 107° (*Soc.* 85, 593 *C.* 1904 [1] 1554).
- 53) Methylester d. 2-Benzoyl-4-Methylphenylamidoameisensäure. Sm. 110° (*Soc.* 85, 596 *C.* 1904 [1] 1554).
- 54) Äthylester d. Phenylbenzoylamidoameisensäure. Sm. 67–68° (*Am.* 30, 35 *C.* 1903 [2] 363).
- 55) Phenylmonamid d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 170 bis 171° (*Soc.* 85, 1367 *C.* 1904 [2] 1646).
- $C_{16}H_{15}O_3N_3$ 56) Benzoylhydrazid d. Benzoylamidoessigsäure. Sm. 213° (*J. pr.* [2] 70, 106 *C.* 1904 [2] 1036).
- 57) 2-Oxybenzylidenhydrazid d. 2-Oxybenzylidenamidoessigsäure. Sm. 189–191° (*J. pr.* [2] 70, 104 *C.* 1904 [2] 1036).
- $C_{16}H_{15}O_4N$ 26) Dimethyläther d. 10-Nitro-9,9-Dioxy-9,10-Dihydroanthracen. Sm. 135° u. Zers. (*A.* 330, 183 *C.* 1904 [1] 892).
- 27) α -Phenyl- β -[2-Amido-3-Oxy-4-Methoxyphenyl]akrylsäure. Sm. 180° (*B.* 35, 4413 *C.* 1903 [1] 343).
- 28) 4-Acetylamidophenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 181° (*D.R.P.* 70714). — *II, 919.
- 29) 4-Acetylamidophenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 167° (*D.R.P.* 70714). — *II, 920.
- 30) 4-Acetylamidophenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 198° (*D.R.P.* 70714). — *II, 922.
- 31) α -Phenylamidoformiat d. 3,4-Dioxy-1-[α -Oxyäthyl]benzol-3,4-Methylenäther. Sm. 65–67° (*B.* 36, 3595 *C.* 1903 [2] 1366).
- 32) 4-Aethoxyphenylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 160 bis 165° (*B.* 36, 998 *C.* 1903 [1] 1131).
- $C_{16}H_{15}O_4N_3$ 11) α -[2,4-Dinitrophenyl]- β -[4-Dimethylamidophenyl]äthen. Sm. 181° (*B.* 37, 1744 *C.* 1904 [1] 1599).
- 12) Äthyläther d. Benzoylimido-3-Nitrophenylamidooxymethan. Sm. 86–88° (*Am.* 32, 366 *C.* 1904 [2] 1507).
- 13) α -Acetyl- α -Phenyl- β -[5-Nitro-2-Oxy-3-Methylbenzyliden]hydrazin. Sm. 241–242° (*B.* 37, 3919 *C.* 1904 [2] 1594).
- 14) α -Acetyl- α -Phenyl- β -[5-Nitro-4-Oxy-3-Methylbenzyliden]hydrazin. Sm. 188–189° (*B.* 37, 3928 *C.* 1904 [2] 1595).
- 15) α -Acetyl- α -Phenyl- β -[5-Nitro-6-Oxy-3-Methylbenzyliden]hydrazin. Sm. 252–253° (*B.* 37, 3924 *C.* 1904 [2] 1595).
- 16) Acetat d. α -Phenyl- β -[5-Nitro-2-Oxy-3-Methylbenzyliden]hydrazin. Sm. 205–206° (*B.* 37, 3920 *C.* 1904 [2] 1594).
- 17) Acetat d. α -Phenyl- β -[5-Nitro-4-Oxy-3-Methylbenzyliden]hydrazin. Sm. 162–163° (*B.* 37, 3928 *C.* 1904 [2] 1595).
- 18) Acetat d. α -Phenyl- β -[5-Nitro-6-Oxy-3-Methylbenzyliden]hydrazin. Sm. 155–156° (*B.* 37, 3924 *C.* 1904 [2] 1595).
- $C_{16}H_{15}O_5N$ *15) Diacetat d. 5-Acetylamido-1,4-Dioxynaphtalin. Sm. 165° (*A.* 335, 150 *C.* 1904 [2] 1136).
- 17) Methylbetaïn d. 2-[3,4-Dimethoxybenzoyl]pyridin-4-Carbonsäure + $3H_2O$ (*M. d.* Pyropapaverinsäure). ($2HCl$, $PtCl_4$ + $2H_2O$) (*M.* 24, 702 *C.* 1903 [2] 1282; *M.* 24, 715 *C.* 1904 [1] 218).
- $C_{16}H_{15}O_5N_3$ 5) 4-Methyläther d. 5-Nitro-3-Acetoxy-4-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 165° (*B.* 35, 4398 *C.* 1903 [1] 341).
- $C_{16}H_{15}O_6N$ 3) Diäthylester d. 4-Nitronaphtalin-1,8-Dicarbonsäure. Sm. 86° (*A.* 327, 82 *C.* 1903 [1] 1227).

- $C_{16}H_{15}N_2Br$ 3) α -Brom- γ -Phenylhydrazon- α -Phenyl- α -Buten. Sm. 97° u. Zers. (Soc. 85, 464 C. 1904 [1] 1438).
- $C_{16}H_{15}N_3S$ *3) Aethyläther d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 99 bis 100° (J. pr. [2] 67, 242 C. 1903 [1] 1263).
- 4) 4-Aethyl-1,5-Diphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 232° (J. pr. [2] 67, 227 C. 1903 [1] 1261).
- 5) 5-Methyl-1-Phenyl-4-Benzyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 205° (J. pr. [2] 67, 256 C. 1903 [1] 1265).
- $C_{16}H_{16}ON_2$ 37) α -Methylimido- α -Benzoylmethylamido- α -Phenylmethan. Sm. 116 bis 117,5°. (2HCl, PtCl₄) (Soc. 83, 324 C. 1903 [1] 581, 876).
- 38) Methyläther d. γ -Phenylhydrazon- α -[4-Oxyphenyl]propen. Sm. 136 bis 137° (B. 36, 853 C. 1903 [1] 976).
- 39) Aethyläther d. 6-Oxy-1-[2-Methylphenyl]benzimidazol. Sm. 77 bis 78° (B. 36, 3862 C. 1904 [1] 91).
- 40) Anhydro-2-Methylamidobenzol-1-Carbonsäurealdehyd. Sm. 139,5 bis 140° (B. 37, 985 C. 1904 [1] 1079).
- $C_{16}H_{16}O_2N_2$ *23) Dimethyläther d. Di[4-Oxybenzyliden]hydrazin. Sm. 160° (B. 37, 3422 C. 1904 [2] 1294).
- *47) γ -Diphenylamid d. Bernsteinsäure. Sm. 226° (C. 1903 [2] 432).
- *51) s-Di[4-Methylphenylamid] d. Oxalsäure. Sm. 263° (A. 332, 265 C. 1904 [2] 700).
- *64) s-Di[2-Methylbenzoyl]hydrazin. Sm. 217° (J. pr. [2] 69, 372 C. 1904 [2] 534).
- *65) s-Di[3-Methylbenzoyl]hydrazin. Sm. 214—216° (J. pr. [2] 69, 373 C. 1904 [2] 534).
- *66) s-Di[4-Methylbenzoyl]hydrazin. Sm. 250° (J. pr. [2] 69, 374 C. 1904 [2] 534).
- *70) $\alpha\beta$ -Dibenzoyl- α -Aethylhydrazin. Sm. 133° (J. pr. [2] 70, 278 C. 1904 [2] 1545).
- 75) Di[6-Oxy-3-Methylbenzyliden]hydrazin. Sm. 122° (B. 37, 3187 C. 1904 [2] 991).
- 76) Monoacetylderivat d. α -Keto- $\alpha\beta$ -Di[4-Amidophenyl]äthan. Sm. 198 bis 205° (A. 325, 75 C. 1903 [1] 463).
- 77) 4-Oxy-3-Acetylphenylhydrazonmethyl-1-Methylbenzol. Sm. 126° (B. 35, 4106 C. 1903 [1] 149).
- 78) Di[2-Oxy-3-Methylbenzyliden]hydrazin. Sm. 229° (B. 35, 4106 C. 1903 [1] 149).
- 79) 5-Methyläther d. 5,6-Dioxy-3-Allylazobenzol (Benzolazoeugenol). Sm. 76—77° (B. 37, 4135 C. 1904 [2] 1736).
- 80) 5-Methyläther d. 5,6-Dioxy-3-Propenylazobenzol (Benzolazoisoeugenol) (B. 37, 4135 C. 1904 [2] 1736).
- 81) 4-Methylphenylimido-4-Methylphenylamidoessigsäure (Soc. 85, 995 C. 1904 [2] 831).
- 82) Phenylamid d. α -Benzoylamidopropionsäure. Sm. 163—165° (J. pr. [2] 70, 147 C. 1904 [2] 1394).
- $C_{16}H_{16}O_2N_4$ *13) Aethylester d. α -Phenylazo- α -Phenylhydrazonessigsäure. Sm. 116—117° (B. [3] 31, 83 C. 1904 [1] 580).
- 24) Benzylidenhydrazid d. β -Phenylureidoessigsäure. Sm. 227° u. Zers. (J. pr. [2] 70, 248 C. 1904 [2] 1463).
- $C_{16}H_{16}O_2Br_2$ 3) Di[2-Brom-4-Methylphenyläther] d. $\alpha\beta$ -Dioxyäthan. Sm. 156° (B. 36, 2875 C. 1903 [2] 834).
- $C_{16}H_{16}O_2S_2$ 1) $\alpha\alpha$ -Dimerkaptopropionphenylbenzyläthersäure. Sm. 72° (B. 36, 302 C. 1903 [1] 500).
- $C_{16}H_{16}O_3N_2$ 48) Phenylamid d. α -Phenylamidoformoxylpropionsäure. Sm. 155—156° (B. [3] 29, 124 C. 1903 [1] 564).
- $C_{16}H_{16}O_3N_4$ 5) Methyläther d. α -Phenylamidoformylimido- α -Phenylureido- α -Oxymethan. Sm. 153°. 3HCl (C. 1904 [2] 29).
- 6) α -[3-Nitrobenzyliden]amido- β -Aethyl- α -Phenylharnstoff. Sm. 153° (B. 36, 1377 C. 1903 [1] 1344).
- $C_{16}H_{16}O_3Cl_2$ 1) δ -Acetat d. isom. $\gamma\gamma$ -Dichlor- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 98° (B. 36, 2396 C. 1903 [2] 498).
- $C_{16}H_{16}O_3S$ 2) Aldehyd d. β -[4-Methylphenyl]sulfon- β -Phenylpropionsäure. Sm. 78° (Am. 31, 170 C. 1904 [1] 876). — *III, 66.

- $C_{16}H_{16}O_4N_2$ *27) Di[Phenylamid] d. d-Weinsäure. Sm. 250° u. Zers. (Soc. 83, 1355 C. 1904 [1] 84).
- 43) α -[β -Phenylureido]- β -[4-Oxyphenyl]propionsäure + $\frac{1}{2}H_2O$. Sm. 104°. Ba + 6 H₂O, Ag + H₂O (B. 36, 3344 C. 1903 [2] 1175).
- 44) Phenylhydrazon d. Maticosäurealdehyd. Sm. 163° (B. 35, 4359 C. 1903 [1] 331).
- 45) Phenylhydrazon d. Verb. $C_{16}H_{16}O_6$. Sm. 249° (B. 36, 3231 C. 1903 [2] 941).
- 46) Aethylester d. 4,6-Dioxy-2-Methylazobenzol-3-Carbonsäure. Sm. 142° (B. 37, 1418 C. 1904 [1] 1417).
- $C_{16}H_{16}O_4S$ 7) β -[4-Methylphenyl]sulfonyl- β -Phenylpropionsäure. Sm. 197—198°. Na + 2 H₂O, Ca, Ba + 4 H₂O (Am. 31, 171 C. 1904 [1] 876).
- $C_{16}H_{16}O_4S_2$ 3) Cyklodi-o-Xylylendisulfon. Sm. oberh. 320° (B. 36, 187 C. 1903 [1] 467).
- $C_{16}H_{16}O_5N_2$ 7) 1-Phenacetylamido-2,5-Dimethylpyrrol-3,4-Dicarbonsäure. Sm. 216—217° u. Zers. (B. 35, 4320 C. 1903 [1] 336).
- $C_{16}H_{16}O_5N_4$ 2) γ -Phenylhydrazon- α -Oxy- α -[2,4-Dinitrophenyl]butan. Sm. 227° u. Zers. (M. 23, 1005 C. 1903 [1] 292).
- $C_{16}H_{16}O_7N_4$ 4) 4-Dimethylamidobenzaldehyd + 2,4,6-Trinitro-1-Methylbenzol. Sm. 60° (B. 37, 1745 C. 1904 [1] 1600).
- $C_{16}H_{16}O_8N_2$ C 52,7 — H 4,4 — O 35,2 — N 7,7 — M. G. 364.
- 1) 2,5,2',5'-Tetramethyl-1,1'-Bipyrrol-3,4,3',4'-Tetracarbonsäure + H₂O. Sm. oberh. 290° u. Zers. (B. 37, 2700 C. 1904 [2] 532).
- $C_{16}H_{16}N_2S_2$ 5) Diphenyläther d. $\alpha\delta$ -Diimido- $\alpha\delta$ -Dimerkaptobutan. HCl (B. 36, 3467 C. 1903 [2] 1244).
- 6) Aethyläther d. 5-Merkapto-2,3-Diphenyl-2,3-Dihydro-1,3,4-Thio-diazol. Sm. 70° (J. pr. [2] 67, 240 C. 1903 [1] 1263).
- $C_{16}H_{16}N_2S_8$ 1) Dimethyläther d. Di[Phenylimidomerkaptomethyl]sulfid. Sm. 84—85° (B. 36, 2285 C. 1903 [2] 561).
- 2) Sulfid d. Methylphenylamidodithioameisensäure. Sm. 150—151° (B. 36, 2281 C. 1903 [2] 560).
- $C_{16}H_{16}N_2S_4$ *1) Dimethyläther d. Di[Phenylimidomerkaptomethyl]disulfid. Sm. 123° (B. 36, 2264 C. 1903 [2] 562).
- *3) Disulfid d. Methylphenylamidodithioameisensäure. Sm. 198° (B. 36, 2274 C. 1903 [2] 563).
- $C_{16}H_{16}N_4S$ 6) 2,5-Di[4-Amidobenzyl]-1,3,4-Thiodiazol. Sm. 148° (B. 35, 3940 C. 1903 [1] 39).
- $C_{16}H_{16}Br_2S_2$ 1) Cyklodi-o-Xylylendibromdisulfid. Sm. 110—112° (B. 36, 187 C. 1903 [1] 467).
- $C_{16}H_{17}ON$ 64) Aethyläther d. α -[4-Oxyphenyl]imido- α -Phenyläthan. Sm. 88°; Sd. 210—212°₁₂ (D.R.P. 87897, 98840). — *III, 99.
- 65) Aethyläther d. α -Benzylimido- α -Oxy- α -Phenylmethan. Sd. 186 bis 188°₁₂ (Soc. 83, 328 C. 1903 [1] 581, 876).
- 66) α -Oximido- $\alpha\gamma$ -Diphenylbutan. Sm. 93° (Am. 31, 655 C. 1904 [2] 446).
- 67) Benzylamid d. β -Phenylpropionsäure. Sm. 85° (B. 37, 2704 C. 1904 [2] 518).
- 68) Aethylbenzylamid d. Benzolcarbonsäure. Sd. 214—216°₁₂ (Soc. 83, 408 C. 1903 [1] 833).
- 69) Aethyl-2-Methylphenylamid d. Benzolcarbonsäure. Sm. 71—72° (Soc. 83, 408 C. 1903 [1] 833).
- 70) Aethyl-4-Methylphenylamid d. Benzolcarbonsäure. Sm. 38—40° (Soc. 83, 408 C. 1903 [1] 833).
- $C_{16}H_{17}ON_3$ 18) 5-Acetylamido-2-Methyl-N-Aethyl- α - oder - β -Naphtimidazol + $\frac{1}{2}H_2O$. Sm. 184—185°. (HCl, AuCl₃), Pikrat (Soc. 83, 1188 C. 1903 [2] 1444).
- $C_{16}H_{17}O_2N$ *27) Phenylamidoformiat d. 4-[α -Oxyäthyl]-1-Methylbenzol. Sm. 95—96° (B. 36, 1636 C. 1903 [2] 26).
- 34) γ -Hydroxylamido- α -Keto- $\alpha\gamma$ -Diphenylbutan (Dypnonhydroxylamin). Sm. 109—110° (112°). Oxalat (C. 1903 [1] 521; A. 330, 229 C. 1904 [1] 944).
- 35) Methyläther d. 4-Dimethylamido-3'-Oxydiphenylketon. Sm. 67° (D.R.P. 65952). — *III, 153.
- 36) Phenylamidoformiat d. α -Oxyisopropylbenzol. Sm. 113° (B. 36, 1863 Anm. C. 1903 [2] 286).

- $C_{16}H_{17}O_2N_6$ 29) 4-Methylphenylamid d. β -Phenylureidoessigsäure. Sm. 229° (*J. pr.* [2] 70, 250 *C.* 1904 [2] 1463).
- $C_{16}H_{17}O_3N$ 19) 1-Methyläther d. 4-[Acetyl-2-Oxybenzyl]amido-1-Oxybenzol. Sm. 98° (*Ar.* 240, 682 *C.* 1903 [1] 395).
- 20) Phenylamidoformiat d. 3,4-Dioxy-1-Propylbenzol. Sm. 142° (*C. r.* 138, 425 *C.* 1904 [1] 798).
- 21) α -Phenylamidoformiat d. 2-Oxy-1-[α -Oxyäthyl]benzol-2-Methyläther. Sm. 106° (*B.* 36, 3588 *C.* 1903 [2] 1365).
- 22) α -Phenylamidoformiat d. 3-Oxy-1-[α -Oxyäthyl]benzol-3-Methyläther. Fl. (*B.* 36, 3591 *C.* 1903 [2] 1366).
- 23) α -Phenylamidoformiat d. 4-Oxy-1-[α -Oxyäthyl]benzol-4-Methyläther. Sm. 82—83° (*B.* 36, 3592 *C.* 1903 [2] 1366).
- 24) 4-Aethoxyphenylimid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbon-säure. Sm. 137° (*B.* 36, 1005 *C.* 1903 [1] 1132).
- $C_{16}H_{17}O_6N_3$ 25) Benzylester d. β -Phenylureidomethylamidomeisensäure. Sm. 204° (*J. pr.* [2] 70, 252 *C.* 1904 [2] 1464).
- 5) Phenylamidoformiat d. α -[β -Oxyäthyl]- β -Phenylharnstoff. Sm. 195° (*B.* 36, 1280 *C.* 1903 [1] 1215).
- $C_{16}H_{17}O_4N$ 6) 4-Aethoxyphenylamidomethyl-3,4-Dioxyphenylketon. Sm. 105° (*D. R. P.* 71312). — *III, 109.
- 7) Aethylester d. α -Cyan- β -Butyroxy- β -Phenylakrylsäure. Fl. (*Bl.* [3] 31, 337 *C.* 1904 [1] 1135).
- $C_{16}H_{17}N_3S$ 7) Methyläther d. α -[α -Phenyl- β -Benzylidenhydrazido]- α -Methyl-imido- α -Merkaptomethan. Sm. 136—137° (*B.* 37, 2332 *C.* 1904 [2] 314).
- 8) α -Benzylidenamido- β -Methyl- α -Benzylthioharnstoff. Sm. 147° (*B.* 37, 2327 *C.* 1904 [2] 313).
- $C_{16}H_{17}N_3S_2$ 1) Methyläther d. α -[β -Phenylthioureido]- α -[2-Methylphenyl]imido- α -Merkaptomethan. Sm. 114—115° (*Am.* 30, 179 *C.* 1903 [2] 872).
- 2) Methyläther d. α -[β -Phenylthioureido]- α -[4-Methylphenyl]imido- α -Merkaptomethan. Sm. 93° (*Am.* 30, 174 *C.* 1903 [2] 871).
- 3) Methyläther d. α -Phenylamidothioformylimido- α -Methylphenyl-amido- α -Merkaptomethan. Sm. 133—134° (*Am.* 30, 177 *C.* 1903 [2] 872).
- 4) Methyläther d. α -[4-Methylphenylthioureido]- α -Phenylimido- α -Merkaptomethan. Sm. 114—115° (*Am.* 30, 180 *C.* 1903 [2] 872).
- 5) Aethyläther d. α -[β -Phenylthioureido]- α -Phenylimido- α -Merkapto-methan. Sm. 91—93° (*Am.* 30, 181 *C.* 1903 [2] 873).
- 6) Dimethyläther d. Di[Phenylimidomerkaptomethyl]amin. Sm. 103 bis 104° *HJ* (*Am.* 30, 177 *C.* 1903 [2] 872).
- $C_{16}H_{17}ClJ_2$ 2) β -Jod-2-Methylphenyl-4-Aethylphenyljodoniumchlorid. 2 + $HgCl_2$, 2 + $PtCl_4$ (*A.* 327, 296 *C.* 1903 [2] 352).
- $C_{16}H_{17}BrJ_2$ 2) β -Jod-2-Methylphenyl-4-Aethylphenyljodoniumbromid. Sm. 120° (*A.* 327, 296 *C.* 1903 [2] 352).
- $C_{16}H_{16}ON_2$ *8) α -Phenylamido- β -Phenylacetylamidoäthan. Sm. 128° (*A.* 332, 213 *C.* 1904 [2] 212).
- *47) Phenylamid d. β -Phenylamidobuttersäure. Sm. 93°. *HCl* (*B.* 36, 1266 *C.* 1903 [1] 1219).
- *49) Benzylamid d. Benzylamidoessigsäure. *HCl* (*Ar.* 240, 633 *C.* 1903 [1] 24).
- 74) 5-Oxy-6-Phenylhydrazonmethyl-1,2,4-Trimethylbenzol. Sm. 144° (*B.* 35, 4104 *C.* 1903 [1] 149).
- 75) 2-Amido-5-Oxy-3,7,10-Trimethyl-5,10-Dihydroakridin. Sm. 184° (*C.* 1904 [1] 676).
- 76) Phenylamid d. β -Phenylamidoisobuttersäure. Sm. 120° (122°) (*B.* 24, 1042; *B.* 36, 1270 *C.* 1903 [1] 1219).
- 77) Phenylhydrazid d. α l- β -Phenylisobuttersäure. Sm. 116—117° (*Soc.* 85, 446 *C.* 1904 [1] 1445).
- $C_{16}H_{16}ON_4$ 9) 3,8-Di[Dimethylamido]diphenazonoxyd. Sm. 242° (*B.* 37, 30 *C.* 1904 [1] 524).
- $C_{16}H_{16}OJ_2$ 2) β -Jod-2-Methylphenyl-4-Aethylphenyljodoniumhydrat. Salze siehe (*A.* 327, 295 *C.* 1903 [2] 352).
- $C_{16}H_{16}O_2N_2$ *13) Diäthyläther d. 4,4'-Dioxyazobenzol. Sm. 158° (*B.* 36, 3163 *C.* 1903 [2] 947).
- *25) Mesoporphyrin (*H.* 43, 11 *C.* 1904 [2] 1572).

- $C_{16}H_{18}O_3N_2$ 26) Dimethyläther d. 2,2'-Di[Oxymethyl]azobenzol. Sm. 68,5° (*C. r.* 137, 522 *C.* 1903 [2] 1060).
- $C_{16}H_{18}O_3N_4$ 25) 4,4'-Di[Aethylnitrosamido]biphenyl. Sm. 163° (*C.* 1903 [1] 1128; *B.* 35, 4184 *C.* 1903 [1] 143).
- 26) 3-Amido-4-Methylphenylamid d. β -Phenylureidoessigsäure. Sm. 193° (*J. pr.* [2] 70, 251 *C.* 1904 [2] 1463).
- 27) Di[2-Amidophenylamid] d. Bernsteinsäure. 2HCl (*A.* 327, 22 *C.* 1903 [1] 1336).
- 28) Di[3-Amido-4-Methylphenylamid] d. Oxalsäure. Sm. 180° (*D.R.P.* 156177 *C.* 1904 [2] 1675).
- $C_{16}H_{18}O_3N_2$ 8) Diäthyläther d. 4,4'-Dioxyazoxybenzol. Sm. 137,4—137,9° (*B.* 37, 46 *C.* 1904 [1] 654).
- $C_{16}H_{18}O_4N_4$ 4) Di[Phenylhydrazid] d. d-Weinsäure. Sm. 245° (231° u. Zers.) (*R.* 21, 312 *C.* 1903 [1] 137; *Soc.* 83, 1363 *C.* 1904 [1] 84).
- 5) 2,2'-Dinitro-4,4'-Di[Dimethylamido]biphenyl. Sm. 229,5° (*B.* 37, 29 *C.* 1904 [1] 523).
- 6) Ricinin (Ricidin) oder $C_{16}H_{18}O_4N_4$. Sm. 194° (193°). + 2HgCl₂ (*C.* 1895 [1] 853; 1900 [1] 612; *B.* 30, 2197; *J.* 1864, 457; 1870, 877). — III, 931; *III, 690.
- 7) Di[Phenylhydrazid] d. Traubensäure. Sm. 220° (*R.* 21, 312 *C.* 1903 [1] 137).
- $C_{16}H_{18}O_4S_2$ 5) β -Phenylsulfon- β -Benzylsulfonpropan. Sm. 125—126° (*B.* 36, 304 *C.* 1903 [1] 500).
- $C_{16}H_{18}O_6N_4$ 3) $\alpha\alpha$ -Di[Benzylsulfon]äthan. Sm. 130° (*B.* 36, 298 *C.* 1903 [1] 499).
- 3) Diäthylamidobenzol + 1,3,5-Trinitrobenzol. Sm. 42—42,5° (*Soc.* 83, 1342 *C.* 1904 [1] 100).
- $C_{16}H_{18}O_6N_2$ 1) Säure (aus Nitrocodein) (*B.* 36, 3068 *C.* 1903 [2] 953).
- $C_{16}H_{18}N_4Cl_2$ 1) Chlormethylat d. Verb. $C_{15}H_{15}N_4Cl$. HCl + 2H₂O, (HCl, PtCl₄ + H₂O) (*B.* 37, 557 *C.* 1904 [1] 893).
- $C_{16}H_{18}ClIj$ 3) 2-Methylphenyl-4-Propylphenyljodoniumchlorid. Sm. 133° u. Zers. 2 + PtCl₄ (*A.* 327, 313 *C.* 1903 [2] 353).
- 4) Di[4-Aethylphenyl]jodoniumchlorid. Sm. 150°. + HgCl₂, 2 + PtCl₄ + 3H₂O (*A.* 327, 290 *C.* 1903 [2] 352).
- 5) 2,4'-Dimethyl-2'-Aethyldiphenyljodoniumchlorid. Sm. 177°. 2 + PtCl₄ (*J. pr.* [2] 69, 445 *C.* 1904 [2] 590).
- $C_{16}H_{18}BrJ$ 3) 2-Methylphenyl-4-Propylphenyljodoniumbromid. Sm. 133° u. Zers. (*A.* 327, 313 *C.* 1903 [2] 353).
- 4) Di[4-Aethylphenyl]jodoniumbromid. Sm. 145° (*A.* 327, 290 *C.* 1903 [2] 352).
- 5) 2,4'-Dimethyl-2'-Aethyldiphenyljodoniumbromid. Sm. 175° (*J. pr.* [2] 69, 445 *C.* 1904 [2] 590).
- $C_{16}H_{19}ON$ 11) 5-[2-Oxybenzyl]amido-1,2,4-Trimethylbenzol. Sm. 172—173° (*Ar.* 240, 688 *C.* 1903 [1] 395).
- $C_{16}H_{19}OJ$ 3) 2,4'-Dimethyl-2'-Aethyldiphenyljodoniumhydroxyd. Salze siehe (*J. pr.* [2] 69, 444 *C.* 1904 [2] 590).
- $C_{16}H_{19}O_2N$ 15) 4-Phenylimido-6-Oxy-5-Acetyl-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 129—130° (*B.* 37, 3381 *C.* 1904 [2] 1219).
- 16) Benzoat d. Pulegenonoxim. Sm. 104—105° (*A.* 327, 133 *C.* 1903 [1] 1412).
- $C_{16}H_{19}O_2N_8$ 5) Acetat d. 5-Oxy-1-Phenyl-3-Hexahydrophenyl-1,2,4-Triazol. Sm. 107—108° (*B.* 36, 1097 *C.* 1903 [1] 1140).
- $C_{16}H_{19}O_4N$ 12) 4-Aethoxyphenylmonamid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure. Sm. 145° (*B.* 36, 999 *C.* 1903 [1] 1131).
- $C_{16}H_{19}O_8N_3$ C 50,4 — H 5,0 — O 34,6 — N 11,0 — M. G. 381.
- 1) Verbindung (aus Cyanessigsäuremethylester u. Acetylcyanessigsäuremethylester). Sm. 135° (*B.* [3] 31, 530 *C.* 1904 [1] 1554).
- $C_{16}H_{19}O_9N$ C 52,0 — H 5,1 — O 39,0 — N 3,8 — M. G. 369.
- 1) Diäthylester d. Mono[3-Nitro-4-Methylbenzoyl]weinsäure. Sm. 104 bis 105° (*Soc.* 83, 172 *C.* 1903 [1] 389, 628).
- $C_{16}H_{19}NCl$ 1) 2-[α -Chloräthyl]-1,3,5-Trimethylbenzol + Pyridin. Sm. 107—108°. + HgCl₂, 2 + PtCl₄, + AuCl₃, + CdJ₂ (*B.* 36, 1642 *C.* 1903 [2] 27).
- $C_{16}H_{19}N_4Cl$ 1) Chlormethylat d. Verbind. $C_{15}H_{15}N_4$. HCl + 2H₂O, + HgCl₂ (*B.* 37, 553 *C.* 1904 [1] 893).

- $C_{16}H_{20}ON_2$ *17) Aethyläther d. 6-Oxy-3,4'-Dimethyl-s-Diphenylhydrazin. Sm. 55 (B. 36, 3856 C. 1904 [1] 90).
- *21) Phenylhydrazoncampher. Enolform Sm. 180—181° (Soc. 81, 1514 C. 1903 [1] 162).
- 26) Aethyläther d. 4-Oxy-2,2'-Dimethyl-s-Diphenylhydrazin. Sm. 80° (B. 36, 3854 C. 1904 [1] 90).
- $C_{16}H_{20}ON_4$ 6) Methyloxyhydrat d. 3-Amido-7-Dimethylamido-2-Methyl-5,10-Naphthdiazin. Nitrat (A. 327, 123 C. 1903 [1] 1221).
- 7) Methylhydroxyd d. Verb. $C_{16}H_{18}N_4$. Chlorid, Nitrat (B. 37, 553 C. 1904 [1] 893).
- $C_{16}H_{20}O_2N_2$ 13) Dimethyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Amidophenyl]äthan. Sm. 203 bis 204° (A. 325, 48 Anm. C. 1903 [1] 462).
- $C_{16}H_{20}O_5N_2$ *1) 2-Naphtylhydrazon d. Galaktose. Sm. 189° (B. 35, 4446 C. 1903 [1] 392).
- *3) 2-Naphtylhydrazon d. d-Glykose. Sm. 178—179° (B. 35, 4446 C. 1903 [1] 392).
- *4) isom. 2-Naphtylhydrazon d. d-Glykose. Sm. 95,5° (B. 37, 3854 C. 1904 [2] 1711).
- 7) 2-Naphtylhydrazon d. Lävulose. Sm. 161—162° (B. 35, 4445 C. 1903 [1] 392).
- 8) 2-Naphtylhydrazon d. d-Mannose. Sm. 186—187° u. Zers. (B. 36, 3202 C. 1903 [2] 1055).
- $C_{16}H_{20}O_6N_2$ 2) Dilaktam d. $\delta\epsilon$ -Diimidooktan- $\gamma\gamma'$ -Tetracarbonsäure- $\gamma\zeta$ -Diäthylester. Sm. 156° (A. 332, 127 C. 1904 [2] 189).
- $C_{16}H_{20}NBr$ 1) l-Methyläthylphenylbenzylammoniumbromid. Sm. 155—156° (Soc. 85, 231 C. 1904 [1] 938).
- 2) i-Methyläthylphenylbenzylammoniumbromid. Sm. 155—156° (Soc. 85, 231 C. 1904 [1] 938).
- $C_{16}H_{20}NJ$ 1) Dimethyldibenzylammoniumjodid. Sm. 186—187,5° (Soc. 83, 1413 C. 1904 [1] 438).
- 2) d-Methyläthylphenylbenzylammoniumjodid. Sm. 146—147° (Soc. 83, 1419 C. 1904 [1] 439; Soc. 85, 227 C. 1904 [1] 652, 938).
- 3) l-Methyläthylphenylbenzylammoniumjodid. Sm. 146—147° (Soc. 85, 228 C. 1904 [1] 652, 938).
- 4) i-Methyläthylphenylbenzylammoniumjodid. Sm. 145—146° (140,5°) (Soc. 83, 1419 C. 1904 [1] 439; Soc. 85, 224 C. 1904 [1] 652, 938; A. 334, 238 C. 1904 [2] 900).
- $C_{16}H_{20}N_2Cl_2$ 1) Diphenochinon- NN' -Tetramethyldiimoniumchlorid. $2 + PtCl_4 + 2H_2O$ (B. 37, 3769 C. 1904 [2] 1547).
- $C_{16}H_{20}N_2J_2$ 1) Diphenochinon- NN' -Tetramethyldiimoniumjodid. $+ J_2$ (B. 37, 3769 C. 1904 [2] 1547).
- $C_{16}H_{21}ON$ *8) Phenylamid d. Pulegensäure. Sm. 124° (A. 227, 128 C. 1903 [1] 1412).
- 9) d-Methyläthylphenylbenzylammoniumhydroxyd. d-Camphersulfonat (Soc. 83, 1419 C. 1904 [1] 439; Soc. 85, 226 C. 1904 [1] 652, 938).
- 10) l-Methyläthylphenylbenzylammoniumhydroxyd. l-Camphersulfonat (Soc. 85, 226 C. 1904 [1] 652, 938).
- 11) l-Oximido-5-Methyl-3-[4-Isopropylphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 124° (A. 303, 243). — *III, 140.
- $C_{16}H_{21}ON_3$ *1) Phenylhydrazon d. Oximidocampher. Sm. 138° (Soc. 85, 909 C. 1904 [2] 597).
- 2) 4-[1-Piperidyl]-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 145° (D.R.P. 145603 C. 1903 [2] 1225).
- $C_{16}H_{21}O_2N$ 14) Benzoat d. α -Methyltropin. HCl (A. 326, 10 C. 1903 [1] 778).
- 15) Benzoat d. Pseudomethyltropin. HCl (A. 326, 18 C. 1903 [1] 778).
- $C_{16}H_{21}O_3N_3$ 3) Methyl ester d. α -[α -Benzoylamidoacetylamidopropionyl]amidopropionsäure. Sm. 180—181° (J. pr. [2] 70, 123 C. 1904 [2] 1037).
- $C_{16}H_{22}O_2N_2$ 9) Diphenochinon- NN' -Tetramethyldiimoniumhydrat. Salze (B. 37, 3768 C. 1904 [2] 1547).
- $C_{16}H_{22}O_3N_4$ C 60,4 — H 6,9 — O 15,1 — N 17,6 — M. G. 318.
- 1) Isopropylidenhydrazid d. β -Benzoylamidoacetylamidobuttersäure. Sm. 145° (J. pr. [2] 70, 209 C. 1904 [2] 1460).
- $C_{16}H_{22}O_5S_2$ 1) Diäthylester d. l,3-Phenylendi[α -Sulfonpropionsäure]. Fl. (J. pr. [2] 68, 328 C. 1903 [2] 1171).

- $C_{16}H_{22}O_9N_2$ C 49,8 — H 5,7 — O 37,3 — N 7,2 — M. G. 386.
1) Nitril d. α -Pentaacetylglukosaminsäure. Sm. 118—119° (B. 35, 4017 C. 1903 [1] 391).
- $C_{16}H_{28}O_2N$ 7) Phenylamidoformiat d. 2-Oxy-1-Methyl-3-Isopropyl-R-Pentamethylen. Sm. 82° (B. 37, 237 C. 1904 [1] 726).
8) Phenylamidoformiat d. 2-Oxy-1,1,4-Trimethylhexahydrobenzol. Sm. 84—85° (u. 92°) (A. 329, 88 C. 1903 [2] 1071).
9) Phenylamidoformiat d. Dihydropulegenol. Sm. 81—82° (A. 327, 135 C. 1903 [1] 1412).
- $C_{18}H_{23}O_4N_8$ C 59,8 — H 7,2 — O 19,9 — N 13,1 — M. G. 321.
1) Semicarbazon d. Santonsäure. Sm. 183—185° (G. 33 [1] 198 C. 1903 [2] 45).
- $C_{18}H_{24}O_2S_2$ 1) Diisoamyläther d. 2,5-Dimerkapto-1,4-Benzochinon. Sm. 170 bis 172° (A. 336, 156 C. 1904 [2] 1300).
- $C_{18}H_{24}O_4N_2$ 4) Di[Diäthylamidoformiat] d. 1,3-Dioxybenzol. Sd. 236—237°₁₀ (Bl. [3] 31, 691 C. 1904 [2] 198).
- $C_{18}H_{24}O_5S_2$ 1) ϵ -Keto- $\alpha\gamma$ -Diäthylsulfon- α -Phenylhexan (B. 37, 509 C. 1904 [1] 884).
 $C_{18}H_{24}O_8N_8$ 2) N-Anhydrid d. Hepta[Amidoacetyl]amidoessigsäure (Oktoglycyl) (B. 37, 1300 C. 1904 [1] 1337).
- $C_{18}H_{25}O_2N$ *4) norm. Nonylester d. Phenylamidoameisensäure. Sm. 59° (C. r. 138, 149 C. 1904 [1] 577).
5) Phenylamidoformiat d. α -Oxynonan. Sm. 59° (Bl. [3] 31, 674 C. 1904 [2] 184).
- $C_{18}H_{25}O_3N$ 2) Verbindung (aus Cyancampher u. Epichlorhydrin). Sm. 128—129° (Bl. [3] 31, 371 C. 1904 [1] 1263).
- $C_{18}H_{25}O_3Cl$ 1) Isoamylester d. Chlorcamphocarbonsäure. Sd. 182—183°₁₂ (B. 35, 4117 C. 1903 [1] 82).
- $C_{18}H_{25}O_3Br$ 2) Isoamylester d. o-Bromcamphocarbonsäure. Sd. 193,5—194,5°₁₃ (B. 36, 1723 C. 1903 [2] 37).
- $C_{18}H_{25}O_3J$ 2) Isoamylester d. o-Jodcamphocarbonsäure. Fl. (B. 36, 1724 C. 1903 [2] 37).
- $C_{18}H_{25}O_4Cl$ *1) Aethylester d. α -Chlortetrahydrocarvonylacetessigsäure. Fl. Na (B. 36, 236 C. 1903 [1] 515).
*2) Aethylester d. β -Chlortetrahydrocarvonylacetessigsäure. Sm. 146° (B. 36, 235 C. 1903 [1] 514).
- $C_{18}H_{25}O_8N$ 6) Triäthylester d. γ -Cyan- β -Methylpentan- $\beta\gamma\epsilon$ -Tricarbonsäure. Sd. 210°₂₀ (C. 1903 [1] 923; Soc. 85, 134 C. 1904 [1] 727).
- $C_{18}H_{25}O_8N_3$ C 59,6 — H 6,5 — O 33,1 — N 10,8 — M. G. 387.
1) Diisoamyläther d. 3,5-Dinitro-2,2-Dioxychinolnitrilsäure? Na (Am. 29, 111 C. 1903 [1] 708).
- $C_{18}H_{28}O_2S_2$ 1) 2,5-Diisoamyläther d. 2,5-Dimerkapto-1,4-Dioxybenzol. Sm. 68 bis 70° (A. 336, 157 C. 1904 [2] 1300).
- $C_{18}H_{26}O_3S$ 2) 2-Heptyl-1,3,5-Trimethylbenzol-4-Sulfonsäure. Mg (B. 37, 1721 C. 1904 [1] 1489).
- $C_{18}H_{26}O_9N_8$ C 40,5 — H 5,5 — O 30,4 — N 23,6 — M. G. 474.
1) Hepta[Amidoacetyl]amidoessigsäure. HCl (B. 37, 1300 C. 1904 [1] 1337).
- $C_{18}H_{28}O_{11}Hg_4$ 1) Verbindung (aus Methyläthylketon u. Merkuriacetat). $\frac{1}{2}$ Pikrat (B. 36, 3704 C. 1903 [2] 1239).
- $C_{18}H_{28}NJ$ 1) Jodmethylat d. d-2-Propyl-1-Benzylhexahydropyridin (J. d. N-Benzyleonin). Sm. 187° (B. 37, 3636 C. 1904 [2] 1510).
2) isom. Jodmethylat d. d-2-Propyl-1-Benzylhexahydropyridin. Sm. 215° (B. 37, 3636 C. 1904 [2] 1510).
- $C_{18}H_{27}O_8N_7$ C 43,1 — H 6,1 — O 28,8 — N 22,0 — M. G. 445.
1) Aethylester d. Hexa[Amidoacetyl]amidoessigsäure. Zers. bei 187—190° (C. 1903 [2] 344).
- $C_{18}H_{28}ON_2$ C 72,7 — H 10,6 — O 6,1 — N 10,6 — M. G. 264.
1) Piperidid d. Bornylamidoameisensäure. Sm. 153° (Soc. 85, 1190 C. 1904 [2] 1125).
- $C_{16}H_{28}O_2S_2$ 1) Diisoamyläther d. 2,5-Dimerkapto-1,4-Diketohexahydrobenzol. Sm. 150—152° (A. 336, 156 C. 1904 [2] 1300).
- $C_{16}H_{20}O_2N$ 3) Bornylester d. Diäthylamidoessigsäure. Sd. 160°₂₀. Citrat (Ar. 240, 650 C. 1903 [1] 399).

- $C_{16}H_{29}N_2J$ *1) Jodmethylat d. Spartein. Sm. bei 240° (234°). HJ (*Bl.* [3] 29, 1140 *C.* 1904 [1] 293; *Ar.* 242, 515 *C.* 1904 [2] 1412).
- 2) Jodisoamylat d. s-Isoamylphenylhydrazin (*C. r.* 137, 330 *C.* 1903 [2] 716; *Bl.* [3] 29, 974 *C.* 1903 [2] 1115).
- $C_{16}H_{30}O_5N_4$ C 53,6 — H 8,4 — O 22,3 — N 15,6 — M. G. 358.
- 1) i- α -[α -Amidoisocapronyl]amidoisocapronylamidoacetylamidoessigsäure (i-Dileucylglycylglycin). Sm. 250° u. Zers. (*B.* 37, 2506 *C.* 1904 [2] 426).
- $C_{16}H_{31}O_2N$ C 71,4 — H 11,5 — O 11,9 — N 5,2 — M. G. 269.
- 1) Menthylester d. Diäthylamidoessigsäure. Sd. 160—162°₂₀. HCl (*Ar.* 240, 646 *C.* 1903 [1] 399).
- $C_{16}H_{31}O_2Cl$ 1) β -Chloräthylester d. Myristinsäure. Sm. 34°; Sd. 115° (*B.* 36, 4341 *C.* 1904 [1] 433).
- $C_{16}H_{31}O_2Br$ 2) β -Bromäthylester d. Myristinsäure. Sm. 48°; Sd. 134° (*B.* 36, 4341 *C.* 1904 [1] 433).
- $C_{16}H_{32}OS$ 1) Thiolpalmitinsäure. Sm. 71° (*C. r.* 136, 555 *C.* 1903 [1] 816).

— 16 IV —

- $C_{16}H_8O_2N_2Cl_2$ 3) isom. Dichlorindigo (D.R.P. 139838 *C.* 1903 [1] 748).
- 4) isom. Dichlorindigo (*B.* 37, 1866 *C.* 1904 [1] 1600).
- $C_{16}H_8O_2N_2Br_2$ *1) m-Dibromindigo (D.R.P. 149940 *C.* 1904 [1] 1046).
- 4) isom. Dibromindigo (*B.* 37, 1868 *C.* 1904 [1] 1601).
- $C_{16}H_9ON_2Br_3$ 1) 1-[2,4,6-Tribromphenyl]azo-2-Oxynaphtalin. Sm. 169° (*B.* 36, 2073 *C.* 1903 [2] 358).
- $C_{16}H_9O_2N_2Cl$ *1) Chlorindigo (D.R.P. 139838 *C.* 1903 [1] 748).
- $C_{16}H_9O_2N_2Br$ *2) Bromindigo (D.R.P. 144249 *C.* 1903 [2] 779; D.R.P. 149899, 149940, 149983 *C.* 1904 [1] 1046).
- $C_{16}H_9O_2N_2Br_6$ 1) 2-Oxy-1-[2,4,6-Tribromphenylazo]naphtalin. Sm. 173—174° (*Soc.* 83, 808 *C.* 1903 [2] 195, 426).
- $C_{16}H_9O_4N_2Cl_2$ 1) p-Dichlor-1-[2,4-Dinitrophenyl]amidonaphtalin. Sm. 179° (*B.* 36, 3270 *C.* 1903 [2] 1127).
- $C_{16}H_{10}ON_2Cl_2$ 2) 2-Oxy-1-[2,4-Dichlorphenylazo]naphtalin. Sm. 190° (*Soc.* 83, 813 *C.* 1903 [2] 426).
- $C_{16}H_{10}ON_2Cl$ 2) Acetyl- α -Chlorindophenazin. Sm. 208—209° (*B.* 35, 4332 *C.* 1903 [1] 292).
- $C_{16}H_{10}O_2N_2Br_2$ 1) 2-Oxy-1-[4,6-Dibrom-2-Oxyphenylazo]naphtalin. Sm. 214—215° (*Soc.* 83, 804 *C.* 1903 [2] 195, 425).
- $C_{16}H_{10}O_3N_2S_2$ 1) 2-Thiocarbonyl-4-Keto-3-Phenyl-5-[2-Nitrobenzyliden]tetrahydrothiazol. Sm. 238° (*M.* 24, 512 *C.* 1903 [2] 837).
- 2) 2-Thiocarbonyl-4-Keto-3-Phenyl-5-[3-Nitrobenzyliden]tetrahydrothiazol. Sm. 240° (*M.* 25, 160 *C.* 1904 [1] 894).
- 3) 2-Thiocarbonyl-4-Keto-3-Phenyl-5-[4-Nitrobenzyliden]tetrahydrothiazol. Sm. 240° (*M.* 25, 162 *C.* 1904 [1] 894).
- $C_{16}H_{10}O_4N_3Cl$ 1) p-Chlor-2-[2,4-Dinitrophenyl]amidonaphtalin. Sm. 206° (*B.* 36, 3270 *C.* 1903 [2] 1127).
- $C_{16}H_{10}O_5N_2S_2$ *1) Indigo-3,3'-Disulfonsäure (*M.* 24, 14 *C.* 1903 [1] 776).
- 4) isom. Indigodisulfonsäure (D.R.P. 143141 *C.* 1903 [2] 272).
- $C_{16}H_{10}O_{11}N_3S$ 1) p-Dinitro-2,6-Dioxy-9,10-Anthrachinon-2,6-Dimethyläther-p-Sulfonsäure (D.R.P. 143858 *C.* 1903 [2] 404).
- 2) p-Dinitro-2,7-Dioxy-9,10-Anthrachinon-2,7-Dimethyläther-p-Sulfonsäure (D.R.P. 143858 *C.* 1903 [2] 404).
- $C_{16}H_{10}O_{16}N_3S_2$ 1) p-Dinitro-1,3,5,7-Tetraoxy-9,10-Anthrachinondimethyläther-p-Disulfonsäure (D.R.P. 139425 *C.* 1903 [1] 746).
- $C_{16}H_{11}ONS_2$ 1) 2-Thiocarbonyl-4-Keto-3-Phenyl-4-Benzylidentetrahydrothiazol. Sm. 186° (*M.* 24, 505 *C.* 1903 [2] 836).
- $C_{16}H_{11}O_2NS_2$ 1) 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden]-3-Phenyltetrahydrothiazol. Sm. 172° (*M.* 25, 165 *C.* 1904 [1] 894).
- $C_{16}H_{11}O_2N_2Cl$ 4) 2-Oxy-1-[4-Chlor-2-Oxyphenylazo]naphtalin. Sm. 265° (*Soc.* 83, 813 *C.* 1903 [2] 426).
- $C_{16}H_{11}O_2N_4Br$ 1) 4-Brom-2-[2-Nitrophenyl]azo-1-Amidonaphtalin. Sm. 219—220° (*Soc.* 85, 752 *C.* 1904 [2] 448).
- 2) 4-Brom-2-[3-Nitrophenyl]azo-1-Amidonaphtalin. Sm. 246° (*Soc.* 85, 752 *C.* 1904 [2] 448).

- $C_{16}H_{11}O_2N_4Br$ 3) 4-Brom-2-[4-Nitrophenyl]azo-1-Amidonaphtalin. Sm. 201—202° (*Soc.* 85, 751 *C.* 1904 [2] 448).
- $C_{16}H_{11}O_3NCl_2$ 2) *p*-Dichlordimethylamidooxy-9,10-Anthrachinon. Sm. 185° (*Bl.* [3] 29, 62 *C.* 1903 [1] 456).
- $C_{16}H_{11}O_3N_3S$ 2) 2-Phenylimido-4-Keto-5-[3-Nitrobenzyliden]tetrahydrothiazol. Sm. noch nicht bei 290° (*C.* 1903 [1] 1258).
- $C_{16}H_{11}O_4N_2Br$ 1) *p*-Brom-8-Nitro-1-Dimethylamido-9,10-Anthrachinon. Sm. 198° (*D. R. P.* 146691 *C.* 1903 [2] 1352).
- $C_{16}H_{11}O_4N_4Cl$ 1) 1-Amido-2-[5-Chlor-2,4-Dinitrophenyl]amidonaphtalin. Sm. 232° (*B.* 37, 3888 *C.* 1904 [2] 1654).
- $C_{16}H_{11}O_{13}N_7S$ 2) *O*-Isopropyläther-8,2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenylimidomerkaptooxymethan. Sm. 147° (*Soc.* 85, 648 *C.* 1904 [2] 310).
- $C_{16}H_{11}ClBrJ$ 1) 3-Bromphenyl-1-Naphtyljodoniumchlorid. Sm. 159°. + $HgCl_2$, 2 + $PtCl_4$ (*J. pr.* [2] 69, 332 *C.* 1904 [2] 36).
- $C_{16}H_{12}ONCl$ *2) Methyläther d. 4-Chlor-1-Oxy-3-Phenylisochinolin. Sm. 76° (*B.* 37, 1686 *C.* 1904 [1] 1523).
- 6) Methyläther d. 1-Chlor-4-Oxy-3-Phenylisochinolin. Sm. 103,5° (*B.* 37, 1690 *C.* 1904 [1] 1524).
- 7) Nitril d. β -Keto- γ -[4-Chlorphenyl]- α -Phenylpropan- γ -Carbonsäure. Sm. 127° (*J. pr.* [2] 67, 390 *C.* 1903 [1] 1357).
- $C_{16}H_{12}ON_2S$ *1) 2-Phenylimido-4-Keto-5-Benzylidentetrahydrothiazol. Sm. 251 bis 252°. Ag, + C_2H_5ONa (*C.* 1903 [1] 1257).
- $C_{16}H_{12}OBrJ$ 1) 3-Bromphenyl-1-Naphtyljodoniumhydroxyd. Salze siehe (*J. pr.* [2] 69, 332 *C.* 1904 [2] 36).
- $C_{16}H_{12}O_2NCl$ *3) 4-Chlor-1-Dimethylamido-9,10-Anthrachinon. Sm. 172° (*D. R. P.* 146691 *C.* 1903 [2] 1353).
- $C_{16}H_{12}O_2NBr$ 1) 4-Brom-1-Dimethylamido-9,10-Anthrachinon. Sm. 178° (*D. R. P.* 146691 *C.* 1903 [2] 1352).
- $C_{16}H_{12}O_4N_2S$ 14) 2-Benzoyl-5-Phenylimidazol-1-Sulfonsäure + $4H_2O$. Sm. 274° wasserfrei. NH_4 + $2H_2O$, $PbOH$, Ag (*B.* 35, 4133 *C.* 1903 [1] 295). — *III, 93.
- $C_{16}H_{12}O_5N_4S$ 3) 1-Phenylazo-2-Phenylimidazol-4[oder 5]-Carbonsäure-1⁴-Sulfonsäure. Zers. oberh. 200° (*B.* 37, 703 *C.* 1904 [1] 1562).
- $C_{16}H_{12}O_7N_4S_2$ 1) 2-[4-Amidophenyl]-8-Oxynaphthiazol-3,6-Disulfonsäure (*D. R. P.* 146375 *C.* 1903 [2] 1402).
- $C_{16}H_{12}N_4Br_2J_2$ 1) Hexamethylenamindibromojodid (*C. r.* 136, 1472 *C.* 1903 [2] 297).
- $C_{16}H_{12}ON_2Cl$ 2) 4-Chlor-1-[α -Phenylhydrazonäthyl]benzofuran. Sm. 90—92° (*A.* 312, 334). — *III, 530.
- 3) Nitril d. β -Oximido- γ -Phenyl- α -[4-Chlorphenyl]buttersäure. Sm. 125° (*J. pr.* [2] 67, 391 *C.* 1903 [1] 1357).
- $C_{16}H_{13}ON_6S_2$ 1) Phenylbenzylamid d. Isorhodanformylamidothioameisensäure. Sm. 180° (*Soc.* 83, 95 *C.* 1903 [1] 230, 447).
- $C_{16}H_{13}ON_4Cl$ 1) 5-Keto-4-[4-Chlorphenyl]azo-3-Methyl-1-Phenyl-4,5-Dihydro-pyrazol. Sm. 141—142° (*Soc.* 83, 1125 *C.* 1903 [2] 24, 791).
- $C_{16}H_{13}ON_4Br$ 1) 5-Keto-4-[4-Bromphenyl]azo-3-Methyl-1-Phenyl-4,5-Dihydro-pyrazol. Sm. 152—153° (*Soc.* 83, 1124 *C.* 1903 [2] 24, 791).
- $C_{16}H_{13}O_2NCl_2$ 1) 3-Chlor-4-Propionylchloramidodiphenylketon. Sm. 114° (*Soc.* 85, 343 *C.* 1904 [1] 1405).
- $C_{16}H_{13}O_3NS$ *8) 2-Phenylamidonaphtalin-6-Sulfonsäure. Na (*C.* 1904 [1] 1013).
- 10) 2-Phenylamidonaphtalin-8-Sulfonsäure. Na (*C.* 1904 [1] 1013).
- $C_{16}H_{13}O_1NCl_2$ 1) Dichlordimethylamidooxydiphenylketon - 2 - Carbonsäure (aus 3-Dimethylamido-1-Oxybenzol u. *p*-Dichlorbenzol-1,2-Dicarbonsäureanhydrid). Sm. 191° (*Bl.* [3] 29, 60 *C.* 1903 [1] 456).
- $C_{16}H_{13}O_4NBr_2$ 1) *N*-Acetyl-2-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 201—202° (*A.* 332, 193 *C.* 1904 [2] 210).
- 2) *N*-Acetyl-3-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 211—213° (*A.* 332, 195 *C.* 1904 [2] 210).
- 3) *N*-Acetyl-4-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 221—222° (*A.* 332, 198 *C.* 1904 [2] 210).
- $C_{16}H_{13}O_4NS$ *1) 6-Phenylamido-1-Oxynaphtalin-3-Sulfonsäure (*C.* 1904 [1] 1013).
- *2) 7-Phenylamido-1-Oxynaphtalin-3-Sulfonsäure (*C.* 1904 [1] 1013).
- 3) 6-Methylphenylsulfonamido-1,2-Benzpyron. Sm. 165—167° (*Soc.* 85, 1238 *C.* 1904 [2] 1124).

- $C_{16}H_{13}O_4NS$ 4) 2-[4-Oxyphenyl]amidonaphtalin-6-Sulfonsäure (C. 1904 [1] 1013).
 5) 2-[4-Oxyphenyl]amidonaphtalin-8-Sulfonsäure (C. 1904 [1] 1013).
 $C_{16}H_{13}O_4N_2Cl_3$ *3) $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di[Phenylamido]äthan-2, 2'-Dicarbonsäure. Sm. 165° (B. 35, 3898 C. 1903 [1] 29).
 $C_{16}H_{13}O_6NS$ *1) 7-[4-Oxyphenyl]amido-1-Oxynaphtalin-3-Sulfonsäure. Na (C. 1904 [1] 1013).
 4) ?-Aethylamido-9,10-Anthrachinon-1-Sulfonsäure (D. R. P. 144634 C. 1903 [2] 750).
 $C_{16}H_{13}O_6NS$ 2) 4-Aethylamido-1-Oxy-9,10-Anthrachinon-7-Sulfonsäure (D. R. P. 155440 C. 1904 [2] 1356).
 $C_{16}H_{13}O_6NS_2$ 1) 2-Phenylamidonaphtalin-2',6'-Disulfonsäure. Na (C. 1904 [1] 1013).
 2) 2-Phenylamidonaphtalin-2',6'-Disulfonsäure. Na (C. 1904 [1] 1013).
 $C_{16}H_{14}ON_2Se$ 1) Phenylbenzylamid d. Selencyanessigsäure. Sm. 70° (Ar. 241, 218 C. 1903 [2] 104).
 $C_{16}H_{14}O_2NCl$ 5) 3-Chlor-4-Propionylamidodiphenylketon. Sm. 107,5° (Soc. 85, 343 C. 1904 [1] 1405).
 6) 2-Propionylchloramidodiphenylketon. Sm. 107° (C. 1903 [1] 1137).
 7) 4-Propionylchloramidodiphenylketon. Sm. 129° (C. 1903 [1] 1137).
 8) Aethyl-4-Benzoylchloramidophenylketon. Sm. 70° (C. 1903 [1] 1223).
 9) 4-Acetylchloramido-3-Methyldiphenylketon. Sm. 110° (Soc. 85, 593 C. 1904 [1] 1554).
 10) 6-Acetylchloramido-3-Methyldiphenylketon. Sm. 116° (Soc. 85, 595 C. 1904 [1] 1554).
 11) Gem. Imid d. Phenylessigsäure d. 4-Chlorphenylessigsäure. Sm. 172° (J. pr. [2] 69, 16 C. 1904 [1] 640).
 $C_{16}H_{14}O_2NBr$ 1) 2-Propionylbromamidodiphenylketon. Sm. 90° (C. 1903 [1] 1137).
 2) 4-Propionylbromamidodiphenylketon. Sm. 123° (C. 1903 [1] 1137).
 3) Aethyl-4-Benzoylbromamidophenylketon. Sm. 111° (C. 1903 [1] 1223).
 $C_{16}H_{14}O_2N_2Br_2$ 4) s-Di[4-Brom-2-Methylphenylamid] d. Oxalsäure. Sm. 254—255° (M. 25, 378 C. 1904 [2] 320).
 $C_{16}H_{14}O_2ClBr$ 1) γ -Chlor- γ -Brom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 155° (B. 36, 2401 C. 1903 [2] 499).
 2) isom. γ -Chlor- γ -Brom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 160° (B. 36, 2402 C. 1903 [2] 499).
 $C_{16}H_{14}O_2ClJ$ 1) γ -Chlor- γ -Jod- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 133—134° u. Zers. (B. 36, 2414 C. 1903 [2] 500).
 $C_{16}H_{14}O_2N_2Br_4$ *1) Diäthyläther d. 3,5,3',5'-Tetrabrom-4,4'-Dioxyazoxybenzol. Sm. 163° (Am. 30, 65 C. 1903 [2] 355).
 $C_{16}H_{14}O_2N_2S$ *7) 2-[4-Amidophenyl]amidonaphtalin-6-Sulfonsäure. Na (C. 1904 [1] 1013).
 $C_{16}H_{14}O_4NBr$ *2) Methyläther d. 10-Brom-10-Nitro-9,9-Dioxy-9,10-Dihydroanthracen. Sm. 139° (A. 330, 169 C. 1904 [1] 891).
 $C_{16}H_{14}O_4N_2Br_2$ 1) N-Acetyl-4-Nitro-2-Methylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 161—162° (A. 332, 191 C. 1904 [2] 210).
 2) N-Acetyl-3-Nitro-4-Methylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 179—180,5° (A. 332, 192 C. 1904 [2] 210).
 $C_{16}H_{14}O_6N_2S_2$ 2) 6-[3-Amidophenylsulfon]amido-1-Oxynaphtalin-3-Sulfonsäure (D. R. P. 151017 C. 1904 [1] 382).
 3) 6-[3-Amidophenylsulfon]amido-2-Oxynaphtalin-4-Sulfonsäure (D. R. P. 151017 C. 1904 [1] 1382).
 $C_{16}H_{14}O_6N_2S_3$ 2) 1,5-Di[Sulfomethylamido]-9,10-Anthrachinon (D. R. P. 112115 C. 1900 [2] 651). — *III, 297.
 $C_{16}H_{14}O_{12}N_2S_2$ 1) ?-Diamido-1,3,5,7-Tetraoxy-9,10-Anthrachinondimethyläther-?-Disulfonsäure (D. R. P. 146265 C. 1903 [2] 1227).
 $C_{16}H_{15}ONBr_2$ 2) 1-[3,5-Dibrom-2-Oxybenzyl]-1,2,3,4-Tetrahydrochinolin. Sm. 113—114° (A. 332, 224 C. 1904 [2] 203).
 $C_{16}H_{15}ONS_2$ *1) 1,2-Diphenyl-3-Aethylimidoxanthid. Sm. 97° (C. 1904 [1] 1003).
 $C_{16}H_{15}O_2NBr_2$ 4) N-Acetyl-2-Methylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 115° (A. 332, 186 C. 1904 [2] 210).

- $C_{16}H_{15}O_2NBr_2$ 5) Acetat d. Methylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 91° (A. 332, 225 C. 1904 [2] 203).
- $C_{16}H_{15}O_2N_2Cl$ 4) Aethyläther d. Benzoylimido-3-Chlorphenylamidooxymethan. Sm. 47—48° (Am. 32, 366 C. 1904 [2] 1507).
- $C_{16}H_{15}O_2N_2Br$ 2) s-2-Methylphenylamid-4-Brom-2-Methylphenylamid d. Oxalsäure. Sm. 186° (M. 25, 380 C. 1904 [2] 320).
- $C_{16}H_{15}O_2N_4Br$ 1) 8-Brom-5-[2-Nitrophenylazo]amido-1,2,3,4-Tetrahydronaphtalin. Zers. 170—175° (Soc. 85, 749 C. 1904 [2] 448).
- 2) 8-Brom-5-[3-Nitrophenylazo]amido-1,2,3,4-Tetrahydronaphtalin. Zers. bei 165—166° (Soc. 85, 749 C. 1904 [2] 448).
- 3) 8-Brom-5-[4-Nitrophenylazo]amido-1,2,3,4-Tetrahydronaphtalin. Zers. bei 178° (Soc. 85, 749 C. 1904 [2] 448).
- $C_{16}H_{15}O_2NCl_2$ 1) p-Dichlordimethylamidooxydiphenylmethan-2-Carbonsäure. Sm. 195° (Bl. [3] 29, 62 C. 1903 [1] 456).
- $C_{16}H_{15}O_2NBr_2$ 4) N-Acetyl-2-Methoxyphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 102—103° (A. 332, 192 C. 1904 [2] 210).
- 5) N-Acetyl-4-Methoxyphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 114—115° (A. 332, 193 C. 1904 [2] 210).
- $C_{16}H_{15}O_4N_2J$ 1) Diacetat d. 4-Jodsoazobenzol. Sm. 164° (B. 37, 1312 C. 1904 [1] 1341).
- $C_{16}H_{15}N_2BrS_2$ 1) Aethyläther d. 2-Brom-5-Merkapto-2,3-Diphenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 185—187° u. Zers. + J_2 (J. pr. [2] 67, 239 C. 1903 [1] 1263).
- $C_{16}H_{15}N_2JS_2$ 1) Methyläther d. 2-Jod-5-Merkapto-2-Phenyl-3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 188° (J. pr. [2] 67, 259 C. 1903 [1] 1265).
- 2) Aethyläther d. 2-Jod-5-Merkapto-1,2-Diphenyl-1,2-Dihydro-1,3,4-Triazol. Sm. 193—194° u. Zers. + J_2 (J. pr. [2] 67, 241 C. 1903 [1] 1263).
- $C_{16}H_{16}ONCl$ 2) 2-Benzoylamido-1-[γ-Chlorpropyl]benzol. Sm. 108° (B. 37, 2921 C. 1904 [2] 1238).
- $C_{16}H_{16}ONBr_3$ 2) α-[4-Dimethylamidophenyl]-α-[2,3,5-Tribrom-4-Oxyphenyl]-äthan. Sm. 108°. HBr, HJ (A. 334, 333 C. 1904 [2] 989).
- $C_{16}H_{16}ON_2Br_2$ 1) Phenylamid d. p-Dibrom-p-Phenylamidoisobuttersäure. Sm. 152° (B. 36, 1271 C. 1903 [1] 1219).
- $C_{16}H_{16}ON_2S$ 12) Methyläther d. α-Benzoylimido-α-Methylphenylamido-α-Merkaptomethan. Sm. 113° (Am. 29, 81 C. 1903 [1] 523).
- 13) 6-Aethyläther d. 2-Merkapto-6-Oxy-4-Methyl-1-Phenylbenzimidazol. Sm. 244—245° (B. 36, 3853 C. 1904 [1] 90).
- 14) 6-Aethyläther d. 2-Merkapto-6-Oxy-1-[4-Methylphenyl]benzimidazol. Sm. 205—206° (B. 36, 3851 C. 1904 [1] 89).
- $C_{16}H_{16}ON_2S_2$ *3) Monoäthyläther d. α-Dimerkaptomethylen-β-Benzoyl-β-Phenylhydrazin. Sm. 164—165° (J. pr. [2] 67, 242 C. 1903 [1] 1263).
- 5) Dimethyläther d. 5-Merkapto-2-Oxy-2,3-Diphenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 82° (J. pr. [2] 67, 225 C. 1903 [1] 1261).
- 6) Methylster d. Benzoyl-4-Methylphenylamidodithioameisensäure. Sm. 160° (J. pr. [2] 67, 259 C. 1903 [1] 1266).
- $C_{16}H_{16}O_2N_2S$ *6) Aethylster d. Diphenylthioallopansäure. Sm. 95° (Soc. 83, 557 C. 1903 [1] 1123).
- $C_{16}H_{16}O_2N_2S_3$ 2) Amid d. Dibenzyltrisulfid-αα'-Dicarbonsäure + H_2O . Sm. 217° (C. 1903 [2] 1272).
- $C_{16}H_{16}O_2N_2Se$ 1) Phenylbenzylamid d. Carbaminselenessigsäure. Sm. 140—141° u. Zers. (Ar. 241, 219 C. 1903 [2] 104).
- $C_{16}H_{16}O_2N_2Se_2$ 1) Di[Phenylamid] d. Dimethyldiselenid-αα'-Dicarbonsäure (Diselenglykolsäureanilid). Sm. 158° (Ar. 241, 201 C. 1903 [2] 103).
- $C_{16}H_{16}O_4N_4Br_2$ 1) Dibromicin (C₁₆H₁₄O₄N₄Br₂). Sm. 247° (C. 1895 [1] 853). — *III, 690.
- $C_{16}H_{16}O_2N_4S$ 1) 5-[4-Nitrophenylazo]amido-1,2,3,4-Tetrahydronaphtalin-8-Sulfonsäure (Soc. 85, 758 C. 1904 [2] 449).
- $C_{16}H_{16}O_2N_2S_2$ 1) 4,4'-Di[Acetyl-amido]biphenyl-2,2'-Disulfonsäure. Na₂ (J. pr. [2] 66, 572 C. 1903 [1] 520).
- $C_{16}H_{16}N_3JS$ 1) Methyläther d. 5-Jod-3-Merkapto-5-Methyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 250° (J. pr. [2] 67, 255 C. 1903 [1] 1265).

- $C_{10}H_{17}ONBr_2$ 2) Methyläther d. Phenyl-3,6-Dibrom-4-Oxy-2,5-Dimethylbenzylamin. Sm. 115—116° (A. 334, 303 C. 1904 [2] 985).
- $C_{10}H_{17}ONS$ 8) 4-Acetylamido-3,4'-Dimethyldiphenylsulfid. Sm. 135—136° (J. pr. [2] 68, 282 C. 1903 [2] 994).
- $C_{10}H_{17}ON_2S_2$ 1) Dimethyläther d. α -Dimerkaptomethylenamido- $\alpha\beta$ -Diphenylharnstoff. Sm. 105° (B. 36, 1365 C. 1903 [1] 1341).
- 2) Methyl ester d. α -Phenylamidoformyl- α -(2-Methylphenyl)-hydrazin- β -Dithiocarbonsäure. Sm. 152° (B. 36, 1370 C. 1903 [1] 1342; B. 36, 1372 C. 1903 [1] 1343).
- $C_{10}H_{17}O_2NS$ 3) Aethyl ester d. 4-Merkaptophenylamidoameisen-4-Methylphenyläthersäure (p-Thiotolylphenylurethan). Sm. 94° (J. pr. [2] 68, 269 C. 1903 [2] 993).
- 4) Phenylamid d. 1,2,3,4-Tetrahydronaphtalin-5-Sulfonsäure. Sm. 144—145° (Soc. 85, 757 C. 1904 [2] 449).
- $C_{10}H_{17}O_3N_2S$ * 1) 5-Amido-8-Phenylazo-1,2,3,4-Tetrahydronaphtalin-8'-Sulfonsäure (Soc. 85, 754 C. 1904 [2] 448).
- $C_{10}H_{17}O_3N_2S$ 1) Dimethyläther d. Nitrosodi[2-Oxyphenyl]thiodicyandiamin. Sm. 171—172° (B. 36, 3324 C. 1903 [2] 1169).
- $C_{10}H_{17}O_4NS$ 2) Methyl ester d. 2-[Methyl-4-Methylphenylsulfon]amidobenzol-1-Carbonsäure. Sm. 94° (B. 35, 4274 C. 1903 [1] 332).
- $C_{10}H_{15}ON_2S$ 3) Aethyläther d. 4'-Oxy-4-Methyl-s-Diphenylthioharnstoff. Sm. 134—135° (B. 36, 3851 C. 1904 [1] 90).
- $C_{10}H_{16}O_2NBr_3$ 1) Methylhydroxyd d. 2,3,5-Tribrom-4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 210—212° (A. 334, 332 C. 1904 [2] 988).
- $C_{10}H_{16}O_2N_4S$ 4) Dimethyläther d. Di[2-Oxyphenyl]thiodicyandiamin. Sm. 80—82°. HCl, HNO₃, Pikrat (B. 36, 3323 C. 1903 [2] 1169).
- $C_{10}H_{16}O_5N_2S$ 1) Aethyl ester d. 2-Naphtylsulfonamidoacetylamidoessigsäure (β -Naphthalinsulfoglycylglycinäthylester). Sm. 119—120° (B. 36, 2105 C. 1903 [1] 1304).
- $C_{10}H_{16}O_6N_2S_2$ * 1) 2,4,2',4'-Tetramethylazobenzol-5,5'-Disulfonsäure + 5H₂O. Na₂ + H₂O, Ca + H₂O, CaH + 1½H₂O, Ba, BaH + H₂O (A. 330, 46 C. 1904 [1] 1141).
- $C_{10}H_{16}N_4ClBr$ 1) Brommethylat d. Verb. C₁₀H₁₆N₄Cl. HBr + H₂O (B. 37, 558 C. 1904 [1] 893).
- $C_{10}H_{16}ON_4Cl$ 1) Base (aus 4-Chlor-1,2-Di[Methylamido]benzol). Chlorid, Bromid, Pikrat (B. 37, 557 C. 1904 [1] 893).
- $C_{10}H_{16}O_5NS$ 1) 4-Amidobenzol-1-Carbonsäureäthylester + 1-Methylbenzol-4-Sulfonsäure. Sm. 185—187° (D.R.P. 150070 C. 1904 [1] 975).
- $C_{10}H_{16}O_6NS$ 1) 1-Oxybenzoldimethyläther-4-Sulfonsäure + 4-Amidobenzol-1-Carbonsäureäthylester. Sm. 188° (D.R.P. 149345 C. 1904 [1] 846).
- $C_{10}H_{16}O_7NS$ 1) 1,2-Dioxybenzol-1-Methyläther-3-Sulfonsäure + 4-Amidobenzol-1-Carbonsäureäthylester. Sm. 175° (D.R.P. 149345 C. 1904 [1] 846).
- $C_{10}H_{20}ONP$ 1) Diäthylamid d. Diphenylphosphinsäure. Sm. 138° (A. 326, 183 C. 1903 [1] 819).
- $C_{10}H_{20}O_6NP$ 2) Diäthylmonamid d. Phosphorsäurediphenylester. Fl. (A. 326, 183 C. 1903 [1] 819).
- $C_{10}H_{20}O_6N_2S$ 1) 4-Amido-4'-Sulfomethylamido-2,2'-Dimethyldiphenylmethan. Sm. 178—180° (D.R.P. 148760 C. 1904 [1] 555).
- 2) 4-Amido-4'-Sulfomethylamido-3,3'-Dimethyldiphenylmethan. Sm. 172° (D.R.P. 148760 C. 1904 [1] 555).
- 3) 6-Amido-6'-Sulfomethylamido-3,3'-Dimethyldiphenylmethan. Sm. 159—160° (D.R.P. 148760 C. 1904 [1] 555).
- 4) 4,4'-Di[Dimethylamido]biphenyl-3-Sulfonsäure. Sm. 261,5° u. Zers. (B. 37, 3770 C. 1904 [2] 1547).
- $C_{10}H_{20}O_6N_2S_2$ 1) 2'-Amido-2,4,3',5'-Tetramethyldiphenylamin-5,6'-Disulfonsäure + H₂O (A. 330, 58 C. 1904 [1] 1142).
- $C_{10}H_{20}O_7N_2S$ 1) 2-Naphtylsulfonhydrazon d. d-Glykose (C. 1904 [2] 1494).
- $C_{10}H_{21}ON_2Cl$ 1) Verbindung + 2H₂O (aus 4,4'-Tetramethyldiamidobiphenyl) (B. 37, 3766 C. 1904 [2] 1546).
- $C_{10}H_{21}ON_2J$ * 1) Jodäthylat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 207° (J. pr. [2] 69, 166 C. 1904 [1] 1268).
- 2) Jodäthylat d. 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 180° (J. pr. [2] 69, 237 C. 1904 [1] 1269).

- $C_{16}H_{21}ON_2J_3$ 1) Verbindung (aus d. Verb. $C_{16}H_{20}N_2J_4$) (B. 37, 3770 C. 1904 [2] 1547).
- $C_{16}H_{21}O_2N_2P$ 1) Di[2-Methylphenylamid] d. Phosphorsäuremonoäthylester. Sm. 115° (A. 326, 250 C. 1903 [1] 868).
- $C_{16}H_{21}O_3NS$ 2) Phenylsulfon- α -Anhydropulegonhydroxylamin. Sm. 120° (B. 37, 954 C. 1904 [1] 1087).
- $C_{16}H_{21}O_3N_3S$ 1) Methyl ester d. 2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Phenyl-tetrahydroimidazol-1- α -Amidoisobuttersäure. Sm. 142° u. Zers. (C. 1904 [2] 1028).
- $C_{16}H_{22}ON_3P$ 1) Diäthylmonamid-Di[Phenylamid] d. Phosphorsäure. Sm. 150° (A. 326, 184 C. 1903 [1] 820).
- " 2) Isobutylamid-Di[Phenylamid] d. Phosphorsäure. Sm. 207° (A. 326, 174 C. 1903 [1] 819).
- $C_{16}H_{22}N_3SP$ 1) Aethylmonamid-Di[4-Methylphenylamid] d. Thiophosphorsäure. Sm. 140° (A. 326, 203 C. 1903 [1] 821).
- " 2) Diäthylmonamid-Di[Phenylamid] d. Thiophosphorsäure. Sm. 192° (A. 326, 212 C. 1903 [1] 822).
- " 3) Isobutylmonamid-Di[Phenylamid] d. Thiophosphorsäure. Sm. 118° (A. 326, 204 C. 1903 [1] 821).
- $C_{16}H_{24}ONCl$ 1) Nitrosochlorid d. α -[2,4,6-Trimethylphenyl]- α -Hepten. Sm. 160° u. Zers. (B. 37, 931 C. 1904 [1] 1209).
- $C_{16}H_{24}ON_5P$ 1) Diäthylmonamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 184—185° (A. 326, 184 C. 1903 [1] 820).
- " 2) Isobutylamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 141° (A. 326, 174 C. 1903 [1] 819).
- $C_{16}H_{24}N_5SP$ 1) Diäthylmonamid-Di[Phenylhydrazid] d. Thiophosphorsäure (A. 326, 212 C. 1903 [1] 822).
- " 2) Isobutylmonamid-Di[Phenylhydrazid] d. Thiophosphorsäure. Sm. 129° (A. 326, 205 C. 1903 [1] 821).
- $C_{16}H_{26}O_2N_2P$ 1) 1,1'-Dipiperidid d. Phosphorsäuremonophenylester. Sd. 215 bis 216°₁₀ (A. 326, 197 C. 1903 [1] 821). — *IV, 10.
- $C_{16}H_{26}ON_3P$ 1) Phenylamid-1,1'-Dipiperidid d. Phosphorsäure. Sm. 159° (A. 326, 197 C. 1903 [1] 821). — *IV, 10.
- $C_{16}H_{26}N_3SP$ 1) Phenylmonamid-1,1'-Dipiperidid d. Thiophosphorsäure. Sm. 112° (A. 326, 217 C. 1903 [1] 822). — *IV, 10.
- $C_{16}H_{27}ON_2Cl$ *1) Chlormethylat d. d-Lupanin. (HCl, PtCl₄) + AuCl₃ (Ar. 242, 435 C. 1904 [2] 783).
- $C_{16}H_{27}ON_2J$ *1) Jodmethylat d. d-Lupanin. Sm. 238,5—240° (Ar. 242, 435 C. 1904 [2] 783).
- $C_{16}H_{27}ON_4P$ 1) Phenylhydrazid-1,1'-Dipiperidid d. Phosphorsäure. Sm. 155° (A. 326, 197 C. 1903 [1] 821).
- $C_{16}H_{27}O_2N_2Cl$ 1) Chlormethylat d. OxyLupanin. + (HCl, PtCl₄ + 3H₂O), + AuCl₃ (Ar. 242, 429 C. 1904 [2] 782).
- $C_{16}H_{27}O_2N_2J$ 1) Jodmethylat d. OxyLupanin. Sm. 228,5—230,5° (Ar. 242, 429 C. 1904 [2] 782).
- $C_{16}H_{28}O_5N_3Br$ 1) α -[α -Bromisocapronyl]amidoisocapronylamidoacetylamidoessigsäure (α -Bromisocapronylleucylglycylglycin). Sm. 161—162° (B. 37, 2505 C. 1904 [2] 426).

- $C_{16}H_{11}O_4N_3Cl_2S$ 1) 8-Amido-7-[2,4-Dichlorphenyl]azo-1-Oxynaphtalin-4-Sulfonsäure (C. 1903 [1] 676).
- $C_{16}H_{11}O_6N_3ClS$ 1) 1-[4-Chlor-3-Nitrophenyl]azo-2-Oxynaphtalin-1⁶-Sulfonsäure (D.R.P. 132968 C. 1903 [2] 315; D.R.P. 145911 C. 1903 [2] 1153).
- $C_{16}H_{12}O_2NClS$ 1) 1-Chlor-2-Naphtylamid d. Benzolsulfonsäure. Sm. 130 bis 131°. Na + 5C₂H₆O (C. 1904 [1] 1075; Soc. 85, 378 C. 1904 [1] 1412).
- $C_{16}H_{12}O_3N_3BrS$ 1) 4-Brom-2-Phenylazo-1-Amidonaphtalin-2⁴-Sulfonsäure (Soc. 85, 752 C. 1904 [2] 448).
- $C_{16}H_{12}O_5NBrS$ 1) p-Brom-1-Dimethylamido-9,10-Anthrachinon-4-Sulfonsäure (D.R.P. 146691 C. 1903 [2] 1352).

- $C_{16}H_{19}ON_2S_3P$ 1) Phosphoryltrithiocyanat + Phenylbenzylamin. Sm. 137 bis 138° (*Soc.* 85, 368 *C.* 1904 [1] 1407).
- $C_{16}H_{14}O_2N_2Cl_2Se_2$ 1) Di[3-Chlorphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbonsäure. Sm. 183° (*Ar.* 241, 209 *C.* 1903 [2] 104).
- $C_{16}H_{14}O_2N_2Br_2Se_2$ 1) Di[3-Bromphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbonsäure. Sm. 198° (*Ar.* 241, 213 *C.* 1903 [2] 104).
- $C_{16}H_{15}ON_2BrS_2$ 1) Aethylster d. *p*-Brom- α -Benzoyl- α -Phenylhydrazin- β -Dithiocarbonsäure. Sm. 117° (*J. pr.* [2] 67, 240 *C.* 1903 [1] 1263).
- $C_{16}H_{16}ONBr_4J$ 1) Jodmethylat d. 3,4,5,6-Tetrabrom-4'-Dimethylamido-2-Oxydiphenylmethan. Sm. 165—166° (*A.* 334, 328 *C.* 1904 [2] 988).
- $C_{16}H_{17}ONBr_3J$ 1) Jodmethylat d. 2,3,5-Tribrom-4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 171—173° (*A.* 334, 332 *C.* 1904 [2] 988).
- $C_{16}H_{18}ONBr_2J$ 1) Jodmethylat d. 3,5-Dibrom-4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 165—170° (*A.* 334, 338 *C.* 1904 [2] 989).
- $C_{16}H_{19}ON_2ClP$ 1) 2-Methylphenylmonamid d. 1,2,3,4-Tetrahydro-1-Chinolyphosphinsäuremonochlorid. Sm. 122° (*A.* 326, 198 *C.* 1903 [1] 821).
- $C_{16}H_{20}O_2NSP$ *1) Diäthylmonamid d. Thiophosphorsäurediphenylester. Sm. 70° (*A.* 326, 211 *C.* 1903 [1] 822).
- $C_{16}H_{24}ON_3Br_2P$ 1) 2,4-Dibromphenylamid-1,1-Dipiperidid d. Phosphorsäure. Sm. 186° (*A.* 326, 236 *C.* 1903 [1] 867). — *IV, 10.
- $C_{16}H_{25}ON_3SP$ 1) 1,1-Dipiperidid d. Thiophosphorsäuremonophenylester. Sm. 108° (*A.* 326, 217 *C.* 1903 [1] 822). — *IV, 10.
- $C_{16}H_{25}ON_3BrP$ 1) 3-Bromphenylmonamid-1,1-Dipiperidid d. Phosphorsäure (*A.* 326, 234 *C.* 1903 [1] 867).
- 2) 4-Bromphenylmonamid-1,1-Dipiperidid d. Phosphorsäure. Sm. 169° (*A.* 326, 233 *C.* 1903 [1] 867). — *IV, 10.
- $C_{16}H_{28}O_2N_2J_4Hg_3$ 1) α -Verbindung (aus Methylheptonoxim). Sm. 114° (*A.* 329, 188 *C.* 1903 [2] 1414).
- 2) β -Verbindung (aus Methylheptonoxim). Sm. 150° u. Zers. (*A.* 329, 187 *C.* 1903 [2] 1414).

C_{17} -Gruppe.

- $C_{17}H_{12}$ *1) Chrysofluoren. Sm. 188°; Sd. 413°. Pikrat (*A.* 335, 134 *C.* 1904 [2] 1134).
- $C_{17}H_{18}$ *1) α -Phenyl- β -[4-Isopropylphenyl]äthen. Sm. 84° (85°) (*B.* 35, 3969 *C.* 1903 [1] 31; *A.* 333, 241 *C.* 1904 [2] 1390).
- $C_{17}H_{22}$ 3) Kohlenwasserstoff (aus Benzyltanacetylalkohol). Sd. 165°₁₅ (*B.* 36, 4370 *C.* 1904 [1] 455).
- $C_{17}H_{30}$ C 87,2 — H 12,8 — M. G. 234.
- 1) Kohlenwasserstoff (aus Petroleum). Sd. 210—215°₀₀ (*C.* 1904 [1] 61).

— 17 II —

- $C_{17}H_{10}O$ *1) Chrysoketon. Sm. 132,5° (*A.* 335, 132 *C.* 1904 [2] 1134).
- $C_{17}H_{11}N$ *3) α -Chrysidin (2,1-Naptakridin). Sm. 108°. HCl, HNO₃, Pikrat (*B.* 37, 2924 *C.* 1904 [2] 1411).
- *4) β -Chrysidin (1,2-Naptakridin). Sm. 131°. HCl, HNO₃, Pikrat (*B.* 37, 2926 *C.* 1904 [2] 1412; *B.* 37, 3078 *C.* 1904 [2] 1474).
- 8) α -Naphtophenanthridin. Sm. 135,5°. HCl + H₂O, Pikrat (*A.* 335, 127 *C.* 1904 [2] 1133).
- 9) β -Naphtophenanthridin. Sm. 182°. HCl (*A.* 335, 129 *C.* 1904 [2] 1133).
- *4) Phenyl-1-Naphtylketon (*B.* 37, 628 *C.* 1904 [1] 810).
- $C_{17}H_{12}O$ *10) 2-Phenylnaphtalin-1-Carbonsäure. Sm. 114°. Ag (*A.* 335, 129 *C.* 1904 [2] 1134).
- $C_{17}H_{12}O_8$ *13) Anhydrid d. $\alpha\alpha$ -Diphenylpropen- $\beta\gamma$ -Dicarbonsäure. Sm. 147—150° u. Zers. (*A.* 330, 354 *C.* 1904 [1] 929).
- 22) Anhydrid d. $\gamma\gamma$ -Diphenylpropen- $\alpha\beta$ -Dicarbonsäure. Sm. 96—98° + C₆H₆ (*A.* 330, 357 *C.* 1904 [1] 929).
- 23) Aldehyd d. 2-Benzoxynaphtalin-1-Carbonsäure. Sm. 109° (*Bl.* [3] 29, 879 *C.* 1903 [2] 885).

- $C_{17}H_{12}O_4$ 18) 2-Keto-5,6-Dioxy-1-Cinnamyliden-1,2-Dihydrobenzofuran. Sm. 236° (B. 37, 826 C. 1904 [1] 1152).
 19) 3-Acetoxyphenanthren-2-Carbonsäure. Sm. 207—208° (B. 35, 4427 C. 1903 [1] 334).
 20) 2-Acetoxyphenanthren-3-Carbonsäure. Sm. 210° (B. 35, 4428 C. 1903 [1] 334).
 21) Lakton (aus d. Lakton $C_{17}H_{14}O_5$, Sm. 153°). Sm. 183° (A. 333, 264 C. 1904 [2] 1392).
 22) Acetat d. 3-Oxy-2-Phenyl-1,4-Benzpyron. Sm. 110—111° (B. 37, 2820 C. 1904 [2] 712).
- $C_{17}H_{12}O_5$ *8) 4-Acetat d. 3,4-Dioxyphenanthrenchinon-3-Methyläther (Acetyl-methylmorpholchinon). Sm. 208—209° (corr.) (B. 35, 4415 C. 1903 [1] 344).
 15) $\alpha\gamma$ -Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[3,4-Dioxyphenyl]propen-3,4-Methylenäther- γ -Carbonsäure. Sm. 208—209° (A. 333, 255 C. 1904 [2] 1391).
 16) isom. Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[3,4-Dioxyphenyl]propen-3,4-Methylenäther- γ -Carbonsäure. Sm. 205° (A. 333, 255 C. 1904 [2] 1391).
 17) Lakton d. β -Oxy- α -Phenyl- β -[3,4-Dioxyphenyl]äthan-3,4-Methylenäther- α -Ketocarbonsäure. Sm. 205° (B. 36, 2346 C. 1903 [2] 433).
 18) isom. Lakton d. β -Oxy- α -Phenyl- β -[3,4-Dioxyphenyl]äthan-3,4-Methylenäther- α -Ketocarbonsäure. Sm. 205° (B. 36, 2346 C. 1903 [2] 433).
- $C_{17}H_{12}O_6$ 12) Fukugetin + $1\frac{1}{2}H_2O$. Sm. 288—290° (wasserfrei) (Soc. 85, 59 C. 1904 [1] 380, 729).
 13) Diacetat d. 2,3-Dioxyxanthon. Sm. 186° (B. 37, 2735 C. 1904 [2] 542).
- $C_{17}H_{12}N_2$ 8) 3'-Amido-1,2-Naphtakridin. Sm. 270°. HCl (B. 37, 3082 C. 1904 [2] 1474).
- $C_{17}H_{18}N$ 10) 1,2-Naphto-2'-Methylcarbazol. Sm. 181°. Pikrat (A. 332, 103 C. 1904 [1] 1571).
- $C_{17}H_{18}N_3$ 5) 1-[4-Methylphenyl]- $\beta\beta$ -Naphtisotriazol. Sm. 145° (A. 332, 103 C. 1904 [1] 1571).
- $C_{17}H_{14}O$ *1) 1-(α -Oxybenzyl)naphtalin (α -Oxyphenyl-1-Naphtylmethan). Sm. 86° (B. 37, 628 C. 1904 [1] 810).
 *5) ε -Keto- $\alpha\varepsilon$ -Diphenyl- $\alpha\gamma$ -Pentadien. (HCl, $SbCl_5$), (HCl, $SnCl_4$), + $2FeCl_3$ (B. 37, 3670 C. 1904 [2] 1569).
 *6) Dibenzylidenacetone (C. 1903 [2] 284; B. 37, 1650 C. 1904 [1] 1603; B. 37, 3284 C. 1904 [2] 1038; B. 37, 3669 C. 1904 [2] 1569).
 8) α -Oxy- α -Phenyl- α -[1-Naphtyl]metan. Sm. 85—86° (B. 37, 2757 C. 1904 [2] 707).
 9) 2-Oxy-1-Benzylnaphtalin. Sm. 115—116° (G. 33 [2] 489 C. 1904 [1] 656).
 10) 4-Oxy-1-Benzylnaphtalin. Sm. 125—126° (G. 33 [2] 471 C. 1904 [1] 655).
- $C_{17}H_{14}O_2$ 28) 5-Oxy-1-Keto-3,4-Diphenyl-2,3-Dihydro-R-Penten. Sm. 176° (B. 36, 1494 C. 1903 [1] 1350; B. 37, 1133 C. 1904 [1] 1256).
 29) γ -Keto- β -Benzoyl- α -Phenyl- α -Buten (Benzylidenbenzoylacetone). Sm. 98—99° (B. 36, 2134 C. 1903 [2] 366).
 30) Lakton d. α -Oxy- $\alpha\beta$ -Diphenyl- β -Buten- γ -Carbonsäure. Sm. 88,5° (Soc. 83, 290 C. 1903 [1] 877).
 31) Verbindung (aus $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenylbutan- $\alpha\gamma$ -Dicarbonsäure). Sm. 138—139° (Soc. 83, 293 C. 1903 [1] 877).
- $C_{17}H_{14}O_3$ *1) γ -Keto- $\alpha\varepsilon$ -Di[2-Oxyphenyl]- $\alpha\delta$ -Pentadien (Lygosin). Na, Na_2 + $7H_2O$ (C. 1903 [1] 835).
 *3) Dibenzoylacetone (B. 37, 3449 C. 1904 [2] 1273).
 39) lab. γ -Keto- $\alpha\varepsilon$ -Di[4-Oxyphenyl]- $\alpha\delta$ -Pentadien. Sm. 232°. HCl (B. 36, 133 C. 1903 [1] 458).
 40) stab. γ -Keto- $\alpha\varepsilon$ -Di[4-Oxyphenyl]- $\alpha\delta$ -Pentadien. Sm. 237—238°. HCl, HBr, H_2SO_4 (B. 36, 130 C. 1903 [1] 457).
 41) α -Keto- $\alpha\beta$ -Diphenyl- β -Buten- γ -Carbonsäure (Desylenpropionsäure). Sm. 174,5° (Soc. 83, 289 C. 1903 [1] 877).
 42) Lakton d. γ -Oxy- γ -[4-Oxyphenyl]- α -Phenylpropen-4-Methyläther- α -Carbonsäure. Sm. 105° (B. 36, 2524 C. 1903 [2] 575).

- C₁₇H₁₄O₃** 43) Lakton d. γ -Oxy- β -Phenyl- γ -[4-Oxyphenyl]propen-4-Methyläther- α -Carbonsäure. Sm. 105° (A. 333, 273 C. 1904 [2] 1392).
 44) Lakton d. α -Oxy- β -Phenyl- α -[4-Oxyphenyl]propen-4-Methyläther- γ -Carbonsäure. Sm. 122° (B. 36, 2524 C. 1903 [2] 575; A. 333, 273 C. 1904 [2] 1392).
- C₁₇H₁₄O₄** *3) Dimethyläther d. 7,8-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 151° (B. 36, 4239 C. 1904 [1] 381).
 *11) $\alpha\alpha$ -Diphenylpropen- $\beta\gamma$ -Dicarbonsäure (A. 330, 352 C. 1904 [1] 929).
 25) Monomethyläther d. 1,7-Dioxy-2,6-Dimethyl-9,10-Anthrachinon. Sm. 214—215° (Soc. 83, 1332 C. 1904 [1] 100).
 26) Dimethyläther d. 5,6-Dioxy-2-Keto-1-Benzyliden-1,2-Dihydrobenzofuran. Sm. 148—149,5° (B. 29, 2433). — *III, 532.
 27) Dimethyläther d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 128 bis 129° (B. 37, 778 C. 1904 [1] 1156).
 28) 6-Aethyläther d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 177 bis 178° (B. 37, 777 C. 1904 [1] 1156).
 29) $\gamma\gamma$ -Diphenylpropen- $\alpha\beta$ -Dicarbonsäure. Sm. 105—115° u. Zers. Ca + 2H₂O, Ba + 3¹/₂H₂O, Ag₂ (A. 330, 357 C. 1904 [1] 929).
 30) 3,4-Dioxyphenanthrendimethyläther- ρ -Carbonsäure. Sm. 196° (B. 35, 4392 C. 1903 [1] 339).
 31) $\alpha\gamma$ -Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Oxyphenyl]propan-4-Methyläther- γ -Carbonsäure. Sm. 191° (A. 333, 268 C. 1904 [2] 1392).
 32) Aethylester d. $\alpha\beta$ -Diketo- $\alpha\beta$ -Diphenyläthan-2-Carbonsäure. Sm. 71° (B. 23, 1345). — *II, 1098.
 33) Verbindung (aus Chrysarobin). Sm. 181° (Soc. 81, 1583 C. 1903 [1] 34, 167).
- C₁₇H₁₄O₆** 26) Trimethyläther d. 1,2,3-Triox-9,10-Anthrachinon. Sm. 168° (M. 23, 1020 C. 1903 [1] 291).
 27) 2³,6-Dimethyläther d. 3,6-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 187—188° (B. 37, 2348 C. 1904 [2] 230).
 28) 2³,6-Dimethyläther d. 3,6-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 144° (B. 37, 959 C. 1904 [1] 1160).
 29) 2¹,6-Dimethyläther d. 3,6-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 184—185° (B. 37, 783 C. 1904 [1] 1159).
 30) 2²,7-Dimethyläther d. 3,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 203° (B. 37, 4157 C. 1904 [2] 1658).
 31) 2³,7-Dimethyläther d. 3,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 170° (B. 37, 4160 C. 1904 [2] 1658).
 32) 2¹,7-Dimethyläther d. 3,7-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 196—197° (B. 37, 4162 C. 1904 [2] 1659).
 33) 5,7-Dimethyläther d. 3,5,7-Triox-2-Phenyl-1,4-Benzpyron. Sm. 177—178° (B. 37, 2804 C. 1904 [2] 712).
 34) 7,8-Dimethyläther d. 3,7,8-Triox-2-Phenyl-1,4-Benzpyron. Sm. 203° (B. 37, 2808 C. 1904 [2] 713).
 35) γ -Oxy- β -Phenyl- α -[3,4-Dioxyphenyl]propen-3,4-Methylenäther- γ -Carbonsäure. Sm. 147° (A. 333, 266 C. 1904 [2] 1392).
 36) α -Keto- β -Phenyl- α -[3,4-Dioxyphenyl]propan-3,4-Methylenäther- γ -Carbonsäure. Sm. 157° (A. 333, 263 C. 1904 [2] 1391).
 37) 3,4,6-Trioxphenanthren-3,6-Dimethyläther-9-Carbonsäure. Sm. 254—256° (B. 35, 4409 C. 1903 [1] 343).
 38) $\alpha\gamma$ -Lakton d. $\alpha\gamma$ -Dioxy- β -Phenyl- α -[3,4-Dioxyphenyl]propan-3,4-Methylenäther- γ -Carbonsäure. Sm. 153° (A. 333, 260 C. 1904 [2] 1391).
 39) isom. Lakton d. $\alpha\gamma$ -Dioxy- β -Phenyl- α -[3,4-Dioxyphenyl]propan-3,4-Methylenäther- γ -Carbonsäure. Sm. 155° (A. 333, 260 C. 1904 [2] 1391).
 40) Diacetat d. 2,3-Dioxyxanthen. Sm. 110° (B. 37, 2735 C. 1904 [2] 542).
- C₁₇H₁₄O₈** 7) 5,6-Dimethyläther d. 5,6-Dioxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran. K (Soc. 83, 137 C. 1903 [1] 90, 466).
- C₁₇H₁₄N₂** 19) Benzyliden-2-Naphtylhydrazin. Sm. 194° (C. 1903 [2] 427).
- C₁₇H₁₄N₄** 2) 3-Methyl-1,4-Diphenylbipyrazol. Sm. 232°. Ag (B. 36, 527 C. 1903 [1] 642).

- $C_{17}H_{15}N$ *1) 1-[2-Methylphenyl]amidonaphtalin. *Sd.* 395—405° (*B.* 37, 2924 *C.* 1904 [2] 1411).
 *3) 2-[2-Methylphenyl]amidonaphtalin. *Sd.* 400—405° (*B.* 37, 2926 *C.* 1904 [2] 1412).
 14) 4-[4-Methylbenzyl]isochinolin. *Sm.* 66—67°. (3HCl, 2HgCl₂), (2HCl, PtCl₄ + H₂O), H₂SO₄, Pikrat (*A.* 326, 297 *C.* 1903 [1] 929).
- $C_{17}H_{15}N_3$ 19) 4-Methyl-6-[3-Amidophenyl]-2-Phenyl-1,3-Diazin. *Sm.* 104—105° (*Soc.* 83, 1375 *C.* 1904 [1] 450).
- $C_{17}H_{16}O$
 $C_{17}H_{16}O_2$ *5) γ -Keto- α -Diphenyl- α -Penten. *Sm.* 53° (*A.* 330, 233 *C.* 1904 [1] 945).
 *15) Dimethylphenyl-*m*-Bisecyklohexanon. *Sm.* 151°; *Sd.* 355° (*B.* 36, 2148 *C.* 1903 [2] 369).
 *23) Äthyläther d. α -Oxy- γ -Keto- α -Diphenylpropen. *Sm.* 77—78° (*Soc.* 85, 462 *C.* 1904 [1] 1079, 1435).
- $C_{17}H_{16}O_3$ 56) Trimethyläther d. 3,4,6-Trioxypheanthren (Methylthebaol). *Fl.* Pikrat (*B.* 35, 4406 *C.* 1903 [1] 342; *B.* 35, 4411 *C.* 1903 [1] 343; *B.* 36, 3081 *C.* 1903 [2] 955).
 57) δ -Oxy- α -Diphenyl- β -Buten- δ -Carbonsäure. *Sm.* 168° (*A.* 333, 281 *C.* 1904 [2] 1393).
 58) β -Keto- α -Diphenylbutan- δ -Carbonsäure. *Sm.* 128° (*A.* 333, 282 *C.* 1904 [2] 1393).
 59) Säure (aus Benzaldehyd u. Bernsteinsäurediäthylester). *Sm.* 170—171° u. Zers. Ca, Ba + H₂O (*B.* 37, 2247 *C.* 1904 [2] 328).
 60) Gem. Anhydrid d. Benzolcarbonsäure u. 1,3,5-Trimethylbenzol-2-Carbonsäure. *Sm.* 105° (*B.* 36, 2537 *Ann.* *C.* 1903 [2] 720).
 61) $\beta\delta$ -Lakton d. $\beta\delta$ -Dioxy- α -Diphenylbutan- δ -Carbonsäure. *Sm.* 113° (*A.* 333, 278 *C.* 1904 [2] 1392).
 62) isom. $\beta\delta$ -Lakton d. $\beta\delta$ -Dioxy- α -Diphenylbutan- δ -Carbonsäure. *Sm.* 153° (*A.* 333, 278 *C.* 1904 [2] 1392).
- $C_{17}H_{16}O_4$ 32) α^3, γ^4 -Dimethyläther d. γ -Keto- γ -[2,4-Dioxyphenyl]- α -[2-Oxyphenyl]propen. *Sm.* 94° (*B.* 37, 4156 *C.* 1904 [2] 1658).
 33) α^3, γ^4 -Dimethyläther d. γ -Keto- γ -[2,4-Dioxyphenyl]- α -[3-Oxyphenyl]propen. *Sm.* 80—81° (*B.* 37, 4159 *C.* 1904 [2] 1658).
 34) Dimethyläther d. α -Diketo- γ -Phenyl- α -[3,5-Dioxyphenyl]propan. *Sm.* 75°. Cu + C₆H₆ (*B.* 35, 3902 *C.* 1903 [1] 27).
 35) Dimethyläther d. α -Diketo- α -Phenyl- γ -[2,4-Dioxyphenyl]propan. *Sm.* 55°. Cu (*C.* 1903 [1] 580; *Soc.* 85, 160 *C.* 1904 [1] 724).
 36) 3,4-Dimethyläther d. γ -Keto- γ -[2,3,4-Trioxypheanyl]- α -Phenylpropen. *Sm.* 98° (*B.* 36, 4238 *C.* 1904 [1] 381).
 37) Dimethyläther d. 6-Oxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. *Sm.* 120° (*B.* 37, 2348 *C.* 1904 [2] 230).
 38) Dimethyläther d. 6-Oxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. *Sm.* 104° (*B.* 37, 958 *C.* 1904 [1] 1160).
 39) Dimethyläther d. 6-Oxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. *Sm.* 160° (*B.* 37, 782 *C.* 1904 [1] 1159).
 40) Dimethyläther d. 7-Oxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. *Sm.* 102° (*B.* 37, 4157 *C.* 1904 [2] 1658).
 41) Dimethyläther d. 7-Oxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. *Sm.* 104° (*B.* 37, 4159 *C.* 1904 [2] 1658).
 42) Dimethyläther d. 7-Oxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. *Sm.* 94—95° (*B.* 37, 4161 *C.* 1904 [2] 1659).
 43) Dimethyläther d. 5,7-Dioxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. *Sm.* 146—147° (*B.* 37, 2803 *C.* 1904 [2] 712).
 44) Dimethyläther d. 7,8-Dioxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. *Sm.* 115° (*B.* 36, 4243 *C.* 1904 [1] 382; *B.* 37, 2807 *C.* 1904 [2] 713).
 45) γ -Oxy- β -Phenyl- α -[4-Oxyphenyl]propen-4-Methyläther- γ -Carbonsäure. *Sm.* 145° (*A.* 333, 273 *C.* 1904 [2] 1392).
 46) α -Keto- β -Phenyl- α -[4-Oxyphenyl]propan-4-Methyläther- γ -Carbonsäure. *Sm.* 148° (*A.* 333, 272 *C.* 1904 [2] 1392).
 47) 2-Methyl-1-Benzyliden-R-Penten-5-Carbonsäure-4-[Äthyl- β -Carbonsäure]. *Zers.* bei 203°. Ag₂ (*B.* 36, 951 *C.* 1903 [1] 1022).
 48) α -Lakton d. α -Dioxy- β -Phenyl- α -[4-Oxyphenyl]propan-4-Methyläther- γ -Carbonsäure. *Sm.* 123° (*A.* 333, 270 *C.* 1904 [2] 1392).
 49) isom. Lakton d. α -Dioxy- β -Phenyl- α -[4-Oxyphenyl]propan-4-Methyläther- γ -Carbonsäure. *Sm.* 155° (*A.* 333, 271 *C.* 1904 [2] 1392).

- $C_{17}H_{16}O_4$ 50) Diphenylester d. Propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 54°; Sd. 236,5°₁₅ (B. 35, 4085 C. 1903 [1] 75).
 51) Phenylbenzylester d. Bernsteinsäure. Sm. 51°; Sd. 245–250°₅ (B. 35, 4077 C. 1903 [1] 74).
- $C_{17}H_{16}O_5$ *8) Dibenzoat d. $\alpha\beta\gamma$ -Trioxypropan (B. 36, 1573 Anm. C. 1903 [2] 225).
 12) 1,3,8-Trioxy-2,4,5,7-Tetramethylfluoron. H_2SO_4 (M. 25, 666 C. 1904 [2] 1144).
- $C_{17}H_{16}O_6$ 14) Di[2,4-Dioxy-1-Acetyl- β -Phenyl]methan. Sm. oberh. 250° (C. 1903 [1] 922).
 15) Methylenbisvanillin. Sm. 155–156° (D. R. P. 75264, 76061). — *III, 75.
 C 58,6 — H 4,6 — O 36,8 — M. G. 348.
- $C_{17}H_{16}O_8$ 1) Di[Acetyl- β -Trioxyphenyl]methan. Sm. 265° (C. 1903 [1] 922).
- $C_{17}H_{16}N_2$ 19) ϵ -Phenylimido- α -Phenylamido- $\alpha\gamma$ -Pentadiën. Sm. 85–86° u. Zers. HCl , (2HCl, $PtCl_4$), HBr, (HJ, J_2) (A. 333, 308, 314 C. 1904 [2] 1149).
 20) 2,6-Diphenyl-4-Methyl-1,4-Dihydro-1,3-Diazin. Sm. 149–150° (2HCl, $PtCl_4$) (Soc. 83, 1374 C. 1904 [1] 164, 450).
- $C_{17}H_{16}N_4$ 6) 4,4'-Di[Methylcyanamidophenyl]methan. Sm. 155° (B. 37, 2672 C. 1904 [2] 443).
- $C_{17}H_{17}N_8$ 6) 5-[4-Methylphenyl]amido-3-Methyl-1-Phenylpyrazol. Sm. 111° (C. 1900 [2] 654; B. 36, 3273).
 7) 5-Methylphenylamido-3-Methyl-1-Phenylpyrazol. Sm. 88,5°; Sd. 220–228°₃₀. (2HCl, $PtCl_4$) (B. 36, 3277 C. 1903 [2] 1189).
 8) Anilopyrin. Sm. 58–59°. (2HCl, $PtCl_4$), HJ, Pikrat (B. 36, 3275 C. 1903 [2] 1189).
- $C_{17}H_{18}O$ *4) γ -Keto- $\alpha\epsilon$ -Diphenylpentan (A. 330, 234 C. 1904 [1] 945).
- $C_{17}H_{18}O_8$ 15) 4-Keto-1,3-Diacetyl-6-Methyl-2-Phenyl-1,2,3,4-Tetrahydrobenzol. Sm. 68° (B. 36, 2145 C. 1903 [2] 369).
 16) Aldehyd d. 3,4-Dioxybenzol-3-Propyläther-4-Benzyläther-1-Carbonsäure. Sm. 74° (D. R. P. 85196). — *III, 75.
 17) Propylester d. α -Oxydiphenyllessigsäure. Sd. 220°₃₅ (B. 37, 2766 C. 1904 [2] 708).
- $C_{17}H_{18}O_4$ 11) α -Acetat d. α -Oxydi[4-Oxyphenyl]methan-4,4'-Dimethyläther. Sm. 83,5° (B. 36, 655 C. 1903 [1] 768).
- $C_{17}H_{18}O_5$ 12) 1,3,6,8-Tetraoxy-2,4,5,7-Tetramethylxanthen. Sm. 320–324° (M. 25, 674 C. 1904 [2] 1145).
- $C_{17}H_{18}O_{10}$ 4) Pentaacetat d. 2,4,6-Trioxy-1-Dioxymethylbenzol. Sm. 155–156° (M. 24, 865 C. 1904 [1] 367).
- $C_{17}H_{18}N_2$ *5) Nitril d. α -Phenylamido- α -[4-Isopropylphenyl]essigsäure. Sm. 86° (B. 37, 4085 C. 1904 [2] 1723).
- $C_{17}H_{18}Br_2$ *1) $\alpha\beta$ -Dibrom- α -Phenyl- β -[4-Isopropylphenyl]äthan. Sm. 181° (A. 333, 241 C. 1904 [2] 1390).
- $C_{17}H_{19}N$ 10) Allylbenzyl-2-Methylphenylamin. Sd. 180–183°₂₇. Pikrat (B. 37, 3896 C. 1904 [2] 1612).
 11) Allylbenzyl-4-Methylphenylamin. Sd. 214–215°₃₁. Pikrat (B. 37, 2721 C. 1904 [2] 592).
- $C_{17}H_{20}O$ 12) Benzylidencaneton. Sd. 178° (B. 36, 4367 C. 1904 [1] 455).
 13) Verbindung (aus d-Brombenzylidencampher). Sm. 68° (C. r. 132, 1574). — *III, 388.
 14) Verbindung (aus i-Brombenzylidencampher). Sm. 43° (C. r. 132, 1574). — *III, 388.
- $C_{17}H_{20}O_2$ *11) d- α -Benzoylcampher. Sm. 88° (B. 36, 2629, 2639 C. 1903 [2] 625; C. r. 136, 1223 C. 1903 [2] 116).
 13) 4,4'-Dioxy-2,5,2',5'-Tetramethyldiphenylmethan. Sm. 181–182° (B. 36, 1891 C. 1903 [2] 291; B. 37, 1471 C. 1904 [1] 1518).
 14) α -Oxybenzylidencampher (Benzoylcampher-Enolform). Sm. 221° (Soc. 83, 98 C. 1903 [1] 233, 458).
 15) Benzoat d. 1-Oxycamphen. Sd. 215–220°₅₀ (Soc. 83, 152 C. 1903 [1] 72, 436).
- $C_{17}H_{20}O_3$ 6) $\alpha\gamma$ -Di[2-Methylphenyläther] d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 36–37°; Sd. 226°₃ (Soc. 83, 1137 C. 1903 [2] 1059).
 7) $\alpha\gamma$ -Di[3-Methylphenyläther] d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 232°₁₈ (Soc. 83, 1139 C. 1903 [2] 1059).
 8) Oxoniumbase (aus p-Phenetol). HCl (B. 36, 653 C. 1903 [1] 768).
 9) Aethylester d. Artemisinsäure. Sm. 97–98° (C. 1903 [2] 1377).

- $C_{17}H_{20}O_4$ *4) Acetat d. Desmotroposantonin. Sm. 156° (*C.* 1904 [1] 941).
 *5) Acetat d. l-Desmotroposantonin. Sm. 154° (*C.* 1904 [1] 941).
 *6) Acetat d. r-Desmotroposantonin. Sm. 145° (*C.* 1904 [1] 941).
 *7) Acetat d. d-Desmotroposantonin. Sm. 154° (*C.* 1904 [1] 941).
 16) Acetat d. l-r-Desmotroposantonin. Sm. 142° (*C.* 1904 [1] 941).
- $C_{17}H_{20}O_6$ 3) Dimethyläther d. Methylenbismethylphloroglucin. Sm. 228—229° (*A.* 329, 282 *C.* 1904 [1] 796).
 4) Methylenbisilcinsäure (*A.* 329, 290 *C.* 1904 [1] 796).
- $C_{17}H_{20}O_8$ 5) Triäthylester d. 6-Oxybenzolz-methyläther-1,3-Dicarbonsäure-4-Methylcarbonsäure. Sm. 78° (*B.* 37, 2120 *C.* 1904 [2] 438).
- $C_{17}H_{20}N_2$ 13) α -Phenylimido- α -Diäthylamido- α -Phenylmethan. Sd. 188—189°₁₀. (2HCl, PtCl₄), Pikrat (*B.* 37, 2682 *C.* 1904 [2] 521).
- $C_{17}H_{21}N_3$ *2) 4-Dimethylamido-1-[4-Dimethylamidobenzyliden]amidobenzol. Sm. 229° (*B.* 37, 858 *C.* 1904 [1] 1206).
 *8) α -Imidodi[3-Methylamido-4-Methylphenyl]methan^p (Auramin G.). Sm. 119—120°. H₂SO₄, Pikrat, Oxalat (*C.* 1903 [1] 399).
 9) 4-Dimethylamido-1-[4-Aethylamidobenzyliden]amidobenzol (*B.* 37, 857 *C.* 1904 [1] 1206).
 10) 4-[4-Methylamido-3-Methylbenzyliden]amido-1-Dimethylamido-benzol. Sm. 162° (*B.* 37, 862 *C.* 1904 [1] 1206).
 11) 4-Diäthylamidobenzylidenphenylhydrazin. Sm. 103° (*B.* 37, 861 *C.* 1904 [1] 1206).
- $C_{17}H_{22}O$ *2) d-Benzylidenmenthon. Sd. 184—185°₁₀ (*B.* 37, 234 *C.* 1904 [1] 725; *C.* 1904 [2] 1043).
 *5) isom. Benzylidenmenthon. Sm. 47° (*C.* 1904 [2] 1044).
 *6) isom. Benzylidenmenthon. Sm. 51° (*C.* 1904 [2] 1044).
 8) 3-Keto-4-[4-Isopropylidenphenyl]-1-Methylhexahydrobenzol. Sm. 58° (*C. r.* 136, 1225 *C.* 1903 [2] 116).
 9) Benzyltanacetone. Sd. 180—181°₁₅ (*B.* 36, 4370 *C.* 1904 [1] 455).
- $C_{17}H_{22}O_3$ *5) Podocarpinsäure (*Soc.* 85, 1242 *C.* 1904 [2] 1308).
 2) 2-Oxy-3-Keto-2-Benzoyl-4-Isopropyl-1-Methylhexahydrobenzol (Benzoyloxymenthon). Sm. 87°; Sd. 208—210°₁₂ u. Zers. (*C.* 1904 [2] 1044).
 10) isom. Benzoyloxymenthon. Sm. 71—72° (*C.* 1904 [2] 1045).
 11) isom. Benzoyloxymenthon. Sm. 100° (*C.* 1904 [2] 1045).
 12) d-Bornylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 44—45° (*C.* 1904 [1] 1580; 1904 [2] 1043).
- $C_{17}H_{22}O_5$ 9) Diäthylester d. β -Benzoylbutan- $\alpha\alpha$ -Dicarbonsäure. Fl. (*C.* 1904 [1] 1258).
- $C_{17}H_{22}O_6$ 4) Olivacein + H₂O. Sm. 156° (*J. pr.* [2] 68, 50 *C.* 1903 [2] 513).
 5) Olivaceasäure. Sm. 138° (*J. pr.* [2] 68, 51 *C.* 1903 [2] 513).
 6) Acetoxylparasantonsäure. Sm. 207° (*C.* 1903 [2] 1377).
- $C_{17}H_{24}O$ *4) 3-Keto-4-Isopropyl-2-Benzyl-1-Methylhexahydrobenzol. Sd. 175° bis 180°₁₀ (*B.* 37, 236 *C.* 1904 [1] 726).
 5) Benzyltanacetylalkohol. Sd. 181—182°₁₅ (*B.* 36, 4370 *C.* 1904 [1] 455).
- $C_{17}H_{24}O_2$ *4) Benzoat d. l-Menthol. Sm. 55°; Sd. 179°₁₂ (*A.* 327, 194 *C.* 1903 [1] 1396).
 5) Capronat d. γ -[2-Oxyphenyl]- β -Penten. Sd. 175—177°₂₀ (*Bl.* [3] 29, 354 *C.* 1903 [1] 1222).
 6) Benzoat d. d-Menthol. Sm. 82° (*J. pr.* [2] 63, 57). — *III, 336.
- $C_{17}H_{24}O_3$ 13) Aethylester d. Desmotroposantonigen Säure. Sm. 116—117° (*G.* 25 [1] 514). — *II, 978.
- $C_{17}H_{24}O_4$ *5) Aethylester d. Parasantonsäure. Sm. 172° (*C.* 1903 [2] 1446).
 9) Diacetat d. 4-Dioxy-methyl-5-tert. Butyl-1,3-Dimethylbenzol. Sm. 87° (*B.* 32, 3648). — *III, 45.
- $C_{17}H_{24}O_5$ 8) $\alpha\gamma$ -Diacetat d. $\alpha\gamma$ -Dioxy- α -[3-Oxyphenyl]- $\beta\beta$ -Dimethylpropan-3-Aethyläther. Sd. 202°₁₃ (*M.* 24, 172 *C.* 1903 [1] 968).
- $C_{17}H_{24}O_6$ 4) $\alpha\alpha\gamma\gamma\epsilon\epsilon$ -Hexaacetylpentan (Dimethylentrisacetylaceton). Sm. 101° (*B.* 36, 2179 *C.* 1903 [2] 372).
 5) Verbindung (aus Acetylaceton u. Formaldehyd). Sm. 181° (*A.* 323, 109; *A.* 332, 21 Anm. *C.* 1904 [1] 1565).
- $C_{17}H_{24}O_7$ 3) Triäthylester d. Methylglutakonylglutakonsäure. Sd. 224—226° u. ger. Zers. (*C. r.* 136, 693 *C.* 1903 [1] 960).

- $C_{17}H_{24}O_{10}$ 3) Tetraäthylester d. $\alpha\epsilon$ -Diketopentan- $\alpha\beta\delta\epsilon$ -Tetracarbonsäure. Sm. 80—81° (*C. r.* 139, 137 *C.* 1904 [2] 602).
- $C_{17}H_{25}N$ 8) Benzyltanacetylamin. Sd. 185—190°₂₅ (*B.* 36, 4371 *C.* 1904 [1] 455).
- $C_{17}H_{26}O$ *1) 3-Oxy-4-Isopropyl-2-Benzyl-1-Methylhexahydrobenzol. Sd. 179 bis 180° (*B.* 37, 236 *C.* 1904 [1] 725).
- 6) Verbindung (aus Guttapercha). Sm. 201—204° (*C.* 1903 [1] 83).
- 7) Verbindung (aus Guttapercha). Sm. 201—204° (*C.* 1903 [1] 83; 1903 [2] 1177).
- $C_{17}H_{26}O_4$ 4) Diacetat d. 9-Methyl-3-Isopropenylbicyclo-[1,3,3]-Nonan-5,7-diol. Sd. 193—196°₁₃ (*B.* 36, 231 *C.* 1903 [1] 514).
- 5) Diacetat d. isom. 9-Methyl-3-Isopropenylbicyclo-[1,3,3]-Nonan-5,7-diol. Sd. 194—196°₁₅ (*B.* 36, 233 *C.* 1903 [1] 514).
- $C_{17}H_{26}O_5$ 3) Verbindung (aus Guttapercha oder $C_{17}H_{26}O_5$). Sm. 133° (*C.* 1903 [1] 84).
- $C_{17}H_{26}O$ 4) Verbindung (aus Guttapercha). Sm. 190—197° (*C.* 1903 [1] 83).
- $C_{17}H_{26}O_2$ 10) Gurjoresen. Sm. 40—43° (*Ar.* 241, 382 *C.* 1903 [2] 724).
- 11) Methyläther d. Storesinol (*Ar.* 239, 523). — *III, 425.
- 12) 1-Menthylester d. 1,2,3,4-Tetrahydrobenzol-1-Carbonsäure. Sd. 176°₁₂ (*A.* 327, 195 *C.* 1903 [1] 1396).
- 13) 1-Menthylester d. 1,2,3,4-Tetrahydrobenzol-5-Carbonsäure. Sd. 178°₁₂ (*A.* 327, 195 *C.* 1903 [1] 1396).
- 14) Acetat d. Atractylol. Fl. (*Ar.* 241, 30 *C.* 1903 [1] 712).
- 15) Acetat d. Gurjuresinol. Sm. 96° (*Ar.* 241, 388 *C.* 1903 [2] 724).
- $C_{17}H_{28}O_8$ 5) 1-Menthylester d. β -Keto- γ -Hexen- γ -Carbonsäure. Sm. 84—88° (*Soc.* 85, 51 *C.* 1904 [1] 360, 788).
- $C_{17}H_{28}O_4$ 2) Pleopsidsäure. Sm. 131—132°. Ag (*A.* 327, 317 *C.* 1903 [2] 508).
- $C_{17}H_{28}O_5$ 2) Diäthylester d. Pulegonmalonsäure. Sd. 209—210°₂₅ (*B.* 33, 3186 Anm.). — *III, 383.
- 3) Verbindung (aus Guttapercha). Sm. 120—125° (*C.* 1903 [1] 84).
- $C_{17}H_{30}O_2$ *2) Elaeomargarinsäure. Sm. 48° (*C.* 1904 [2] 949).
- 5) 1-Menthylester d. α -Hexen- α -Carbonsäure. Sd. 174—175,5°₁₄ (*A.* 327, 177 *C.* 1903 [1] 1396).
- 6) 1-Menthylester d. Hexahydrobenzolkarbonsäure. Sm. 48°; Sd. 170°₁₂ (*A.* 327, 186, 196 *C.* 1903 [1] 1396).
- $C_{17}H_{30}O_4$ 2) Säure (aus Chaulmoograsäure). Ag₂ (*Soc.* 85, 860 *C.* 1904 [2] 349, 604).
- $C_{17}H_{30}O_5$ 3) Säure (aus Chaulmoograsäure). Sm. 128°. Ag₂ (*Soc.* 85, 861 *C.* 1904 [2] 349, 604).
- $C_{17}H_{32}O_2$ 3) 1-Menthylester d. Oenanthsäure. Sd. 165°₁₅ (*B.* 31, 364). — *III, 334.
- $C_{17}H_{32}O_8$ C 71,8 — H 11,6 — O 16,9 — M. G. 284.
- 1) Myristat d. α -Oxy- β -Ketopropan. Sd. 224—226°₂₈ (*C. r.* 138, 1275 *C.* 1904 [2] 93).
- $C_{17}H_{32}O_4$ *7) Lichestronsäure. Sm. 80° (*J. pr.* [2] 68, 33 *C.* 1903 [2] 512).
- $C_{17}H_{32}O_5$ *1) Oxyroccellsäure. Sm. 128° (*J. pr.* [2] 68, 67 *C.* 1903 [2] 514).
- $C_{17}H_{32}O_{10}$ 2) Maclayin. Sm. 158—165° (*Ch. Z.* 20, 970). — *III, 444.
- $C_{17}H_{34}O$ 5) Aldehyd d. Margarinsäure. Sm. 36°. + C_2H_6O (Sm. 52°), + $NaHSO_4$ (*Soc.* 85, 833 *C.* 1904 [2] 304, 509).
- $C_{17}H_{34}O_2$ *1) Margarinsäure. Ag (*Soc.* 85, 836 *C.* 1904 [2] 509).
- 10) Säure (aus Schweinefett). Sm. 55—56° (*B.* 36, 2770 *C.* 1903 [2] 896; *C.* 1904 [2] 414).
- $C_{17}H_{34}O_3$ 5) α -Oxyhexadekan- α -Carbonsäure. Sm. 89° (*Soc.* 85, 838 *C.* 1904 [2] 509).
- $C_{17}H_{34}O_4$ 2) α -Myristat d. $\alpha\beta\gamma$ -Trioxypopropan. Sm. 68°; Sd. 162°₀ (*B.* 36, 4342 *C.* 1904 [1] 434).

- $C_{17}H_2O_4Br_7$ 1) Diacetat d. $\alpha,2,3,5,2',3',5'$ -Heptabrom-4,4'-Dioxydiphenylmethan. Sm. 227—228° (*A.* 330, 70 *C.* 1904 [1] 1147).
- $C_{17}H_{10}O_3N_2$ 4) Methylenindigo = $(C_{17}H_{10}O_3N_2)_x$ (*C.* 1903 [2] 835).
- $C_{17}H_{10}O_4Br_8$ 1) Diacetat d. 2,3,5,2',3',5'-Hexabrom-4,4'-Dioxydiphenylmethan. Sm. 215° (*A.* 330, 68 *C.* 1904 [1] 1147).
- $C_{17}H_{10}O_6Br_2$ 1) Dibromfukugetin. Sm. 280° (*Soc.* 85, 60 *C.* 1904 [1] 380, 729).
- $C_{17}H_{10}O_8Br_4$ 1) Äthyläther d. Tetrabrommyricetin. Sm. 146° (*Soc.* 85, 62 *C.* 1904 [1] 381, 729).

- C₁₇H₁₁ON** *1) Oximidochrysofluoren. Sm. 202° u. Zers. (A. 335, 133 C. 1904 [2] 1134).
 7) 7-Oxy-1,2-Naphtakridin. Sm. 322°. HCl (B. 37, 3080 C. 1904 [2] 1474).
 8) α -Naphthophenanthridon. Sm. 332,5° (A. 335, 126 C. 1904 [2] 1133).
 9) β -Naphthophenanthridon. Sm. 338° (A. 335, 128 C. 1904 [2] 1133).
- C₁₇H₁₁OBr** 3) Verbindung (aus Cinnamylidenacetophenon). Sm. 80—90° (C. 1903 [2] 945).
- C₁₇H₁₁O₃N** *2) Benzoat d. 2-Oximido-1-Keto-1,2-Dihydronaphtalin. Sm. 189 bis 190° u. Zers. (B. 36, 4169 C. 1904 [1] 287).
 7) Methyläther d. Oxyphenonaphtoxazon. Sm. 270—271° (B. 36, 1812 C. 1903 [2] 206).
 C 62,8 — H 3,4 — O 29,5 — N 4,3 — M. G. 325.
- C₁₇H₁₁O₆N** 1) 2-Keto-5,6-Dioxy-1-[4-Nitrocinnamyliden]-1,2-Dihydrobenzofuran. Sm. 265° (B. 37, 526 C. 1904 [1] 1152).
- C₁₇H₁₁O₆N₃** *2) 3,5-Dinitro-2-[1-Naphtyl]amidobenzol-1-Carbonsäure. Sm. 226° u. Zers. (G. 33 [2] 328 C. 1904 [1] 278).
 *3) 3,5-Dinitro-2-[2-Naphtyl]amidobenzol-1-Carbonsäure. Sm. 210° u. Zers. (G. 33 [2] 329 C. 1904 [1] 278).
- C₁₇H₁₁O₆N₅** C 47,6 — H 2,6 — O 33,5 — N 16,3 — M. G. 429.
 1) 2,4-Dinitrophenyläther d. 2,4-Dinitrophenylpyridoniumhydroxyd. Sm. 142—143° (A. 333, 302 C. 1904 [2] 1147).
- C₁₇H₁₂OS** *1) Benzoat d. 1-Merkaptonaphtalin. Sm. 117—118° (Bl. [3] 29, 764 C. 1903 [2] 621).
- C₁₇H₁₂O₂N₂** *11) Nitril d. α -[4-Nitrophenyl]- δ -Phenyl- $\alpha\gamma$ -Butadien- α -Carbonsäure. Sm. 209—210° (A. 336, 216 C. 1904 [2] 1732).
 12) 2-[2-Nitrobenzyliden]amidonaphtalin. Sm. 91° (B. 36, 594 C. 1903 [1] 725).
 13) 2-[3-Nitrobenzyliden]amidonaphtalin. Sm. 90° (B. 36, 593 C. 1903 [1] 724).
 14) α -[2-Nitrophenyl]- β -[2-Chinoly]äthen. Sm. 103°. HCl, (2HCl, 3HgCl₂), (2HCl, TCl₃), (2HCl, PtCl₄), (HCl, AuCl₃), HNO₃, H₂SO₄ (B. 36, 1667 C. 1903 [2] 48).
 15) α -[2-Nitrophenyl]- β -[4-Chinoly]äthen. Sm. 162°. HCl, (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), HNO₃ (B. 36, 1669 C. 1903 [2] 49).
 16) α -[4-Nitrophenyl]- β -[4-Chinoly]äthen. Sm. 221°. HCl, (2HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), HBr, Pikrat (B. 36, 1670 C. 1903 [2] 49).
- C₁₇H₁₂O₄N₂** 11) 4-Nitrobenzyläther d. 2-Oximido-1-Keto-1,2-Dihydronaphtalin. Sm. 199° (B. 36, 4169 C. 1904 [1] 287).
- C₁₇H₁₂O₄N₄** 2) Nitril d. β -Cyan- $\alpha\gamma$ -Di[4-Nitrophenyl]propan- β -Carbonsäure. Sm. 219—221° (G. 32 [2] 361 C. 1903 [1] 629).
- C₁₇H₁₂O₄Br₂** 1) Dimethyläther d. 6,8-Dibrom-5,7-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 253° (B. 37, 3167 C. 1904 [2] 1059).
- C₁₇H₁₂O₄Br₄** 1) Diacetat d. 3,5,3',5'-Tetrabrom-4,4'-Dioxydiphenylmethan. Sm. 168 bis 169° (B. 36, 1886 C. 1903 [2] 291; A. 330, 67 C. 1904 [1] 1147).
 C 58,0 — H 3,4 — O 22,7 — N 15,9 — M. G. 352.
- C₁₇H₁₂O₆N₄** 1) 5-Keto-3-Methyl-4-[2,4-Dinitrobenzyliden]-1-Phenyl-4,5-Dihydropyrazol. Sm. 160° (B. 37, 1870 C. 1904 [1] 1604).
- C₁₇H₁₃ON** *5) 2-Amidophenyl-1-Naphtylketon. Sm. 140,5° (B. 35, 4277 C. 1903 [1] 333).
 28) 3-Phenyl-5-[β -Phenyläthenyl]isoxazol? Sm. 126—127° (B. 36, 1498 C. 1903 [1] 1351).
- C₁₇H₁₃OBr₃** 1) Tribromdihydrocinnamylidenacetophenon. Sm. 129° u. Zers. (C. 1903 [2] 945).
- C₁₇H₁₃O₃N** 38) 3,4-Methylenäther d. 3-[3,4-Dioxybenzyliden]-2-Methylindol. HCl (B. 37, 323 C. 1904 [1] 668).
 39) 1-Phenylamidonaphtalin-1²-Carbonsäure. Sm. 205—206° (D.R.P. 145 189 C. 1903 [2] 1097).
 40) 2-Phenylamidonaphtalin-2²-Carbonsäure. Sm. 208—209° (D.R.P. 145 189 C. 1903 [2] 1097).
 41) Nitril d. $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien- γ -Carbonsäure (β -Cyan-diphenacyl). Sm. 118° (B. 36, 2415 C. 1903 [2] 500).
 42) Verbindung (aus 2-Methylchinolin u. Protokatechualdehyd). Sm. 249°. HCl + H₂O (B. 36, 4331 C. 1904 [1] 449).

- $C_{17}H_{13}O_2N$ 43) Verbindung (aus 4-Methylchinolin u. Protokatechualdehyd). HCl, (2HCl, $PtCl_4$) (B. 36, 4331 C. 1904 [1] 449).
- $C_{17}H_{13}O_2N_3$ 5) 2-Phenylsemicarbazol-1-Keto-1,2-Dihydronaphtalin. Sm. 250 bis 251° (A. 334, 200 C. 1904 [2] 835).
- 6) 4-Methyl-6-[3-Nitrophenyl]-2-Phenyl-1,3-Diazin. Sm. 137—138° (Soc. 83, 1375 C. 1904 [1] 164, 450).
- 7) Phenylamid d. 4-Oxy-1-Naphtylazoameisensäure. Sm. 235° u. Zers. (A. 334, 197 C. 1904 [2] 835).
- $C_{17}H_{13}O_2N_5$ C 64,0 — H 4,1 — O 10,0 — N 21,9 — M. G. 319.
- 1) p-Nitro-3-Methyl-1,4-Diphenylpyrazol. Sm. oberh. 300° (B. 36, 528 C. 1903 [1] 642).
- 2) Nitril d. Methyl-4-[α -Cyan-4-Nitrobenzyliden]amidophenylamidoessigsäure. Sm. 195° (B. 37, 2638 C. 1904 [2] 519).
- $C_{17}H_{13}O_2Br$ 4) p-Brom- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien- α -Carbonsäure. Sm. 200—201° (J. pr. [2] 68, 534 C. 1904 [1] 452).
- $C_{17}H_{13}O_3N$ *12) Säure (aus 2-Methylindol u. Phtalsäureanhydrid). Sm. 200° (B. 37, 1223 C. 1904 [1] 1272).
- 21) p-Nitro-4-Oxy-1-Benzylaphtalin. Zers. bei 80—90° (G. 33 [2] 477 C. 1904 [1] 655).
- $C_{17}H_{13}O_3N_3$ 10) 5-Keto-3-Methyl-4-[2-Nitrobenzyliden]-1-Phenyl-4,5-Dihydropyrazol. Sm. 154° (B. 37, 1870 C. 1904 [1] 1601).
- 11) Anhydrid d. Phenylimidoessigsäure-2-Carbonsäure- α -Acetylphenylhydrazid. Sm. 260—262° (A. 332, 238 C. 1904 [2] 38).
- $C_{17}H_{13}O_3Br$ 8) Acetat d. Bromdioxymethylphenanthren. Sm. 166° (A. 297, 214). — *III, 672.
- $C_{17}H_{13}O_4N$ 13) γ -Keto- β -Benzoyl- α -[3-Nitrophenyl]- α -Buten. Sm. 111—112° (Soc. 83, 1377 C. 1904 [1] 164, 450).
- 14) δ -Phenyl- α -[4-Nitrophenyl]- $\alpha\gamma$ -Butadien- α -Carbonsäure. Sm. 259° u. Zers. $Na + 2H_2O$ (B. 37, 1123 C. 1904 [1] 1210; A. 336, 215 C. 1904 [2] 1732).
- 15) Methylester d. α -Phtalylamidophenylessigsäure. Sm. 99° (B. 37, 1689 C. 1904 [1] 1524).
- 16) Phenylester d. α -Phtalylamidopropionsäure. Sm. 99° (M. 25, 778 C. 1904 [2] 1121).
- 17) 1-Naphtylamid d. 3,4,5-Trioxybenzol-1-Carbonsäure. Sm. 163° (D.R.P. 53315). — *II, 1112.
- 18) 2-Naphtylamid d. 3,4,5-Trioxybenzol-1-Carbonsäure. Sm. 216° (D.R.P. 53315). — *II, 1112.
- $C_{17}H_{13}O_4N_3$ 8) Methylester d. 5-Benzoxyl-1-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 104—105° (A. 335, 77 C. 1904 [2] 1230).
- $C_{17}H_{13}O_4Br_3$ 1) Dimethyläther d. 3,6,8-Tribrom-5,7-Dioxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 174—175° u. Zers. (B. 37, 3167 C. 1904 [2] 1059).
- $C_{17}H_{13}O_7N_3$ 5) Acetat d. γ -Oximido- β -Nitro- α -Keto- γ -[4-Nitrophenyl]- α -Phenylpropan. Sm. 158° u. Zers. (A. 328, 230 C. 1903 [2] 999).
- $C_{17}H_{13}N_4Br$ 1) p-Brom-3-Methyl-1,4-Diphenylbipyrazol (B. 36, 528 C. 1903 [1] 642).
- $C_{17}H_{14}ON_2$ 46) Inn. Anhydrid d. Chinolinphenacyloxim. Sm. 72°. HCl + H_2O , (2HCl, $PtCl_4$), (HCl, $AuCl_3$), HBr (Ar. 240, 695 C. 1903 [1] 402).
- 47) Inn. Anhydrid d. Isochinolinphenacyloxim. Sm. 121°. HCl + H_2O , (2HCl, $PtCl_4$), (HCl, $AuCl_3$) (Ar. 240, 703 C. 1903 [1] 403).
- $C_{17}H_{14}ON_4$ 5) 4,4'-Di[Methyleyanamidophenyl]keton. Sm. 236° (B. 37, 2673 C. 1904 [2] 443).
- $C_{17}H_{14}OBr_2$ 1) $\delta\epsilon$ -Dibrom- γ -Keto- $\alpha\epsilon$ -Diphenyl- α -Penten. Sm. 163° u. Zers. (B. 36, 1498 C. 1903 [1] 1351).
- 2) Dibromdihydrocinnamylidenacetophenon. Sm. 104° (C. 1903 [2] 945).
- $C_{17}H_{14}OBr_4$ *1) $\alpha\beta\delta\epsilon$ -Tetrabrom- γ -Keto- $\alpha\epsilon$ -Diphenylpentan (C. 1903 [1] 399).
- $C_{17}H_{14}O_2N_2$ *10) 3-Keto-4-Benzoyl-5-Methyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 102°. Na (B. 36, 526 C. 1903 [1] 641).
- $C_{17}H_{14}O_2N_4$ 3) 3,5-Di[Benzoylamido]pyrazol. Sm. 207—208° (B. 37, 3525 C. 1904 [2] 1314).
- $C_{17}H_{14}O_2Br_2$ *2) $\gamma\delta$ -Dibrom- $\alpha\delta$ -Diphenyl- α -Buten- α -Carbonsäure. Sm. 180—181° (174°) (J. pr. [2] 68, 527 C. 1904 [1] 451; B. 37, 1124 C. 1904 [1] 1210; A. 336, 227 C. 1904 [2] 1733).

- $C_{17}H_{14}O_3N_2$ 11) α -Oxy- α -[2-Nitrophenyl]- β -[2-Chinoly]äthan. Sm. 168°. HCl, (2HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃) (B. 36, 1668 C. 1903 [2] 49).
- $C_{17}H_{14}O_3Br_2$ 7) Trimethyläther d. β -Dibrom-3,4,6-Trioxypheanthren. Sm. 122 bis 123° (B. 35, 4407 C. 1903 [1] 342; B. 35, 4411 C. 1903 [1] 343).
- $C_{17}H_{14}O_4N_2$ 6) 4-Acetoxybenzol-3-Akrylsäure. Sm. 167—169° (B. 37, 4126 C. 1904 [2] 1735).
- $C_{17}H_{14}O_4N_4$ 2) ϵ -[3-Nitrophenyl] imido- α -[3-Nitrophenyl] amido- $\alpha\gamma$ -Pentadiën. HBr (J. pr. [2] 70, 39 C. 1904 [2] 1235).
- 3) ϵ -[4-Nitrophenyl] imido- α -[4-Nitrophenyl] amido- $\alpha\gamma$ -Pentadiën. HBr (J. pr. [2] 70, 28 C. 1904 [2] 1234).
- 4) Verbindung (aus 5-Keto-1-Phenyl-4,5-Dihydro-1,2,3-Triazol-4-Carbonsäure). Sm. 168° (A. 335, 91 C. 1904 [2] 1231).
- $C_{17}H_{14}O_4Br_2$ 2) Diacetat d. 3,5-Dibrom- α ,4-Dioxydiphenylmethan. Sm. 109° (A. 334, 384 C. 1904 [2] 1052).
- 3) α -Benzoat d. β -Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol-3,4-Methylenäther. Sm. 142—143° (C. 1903 [1] 970).
- $C_{17}H_{14}O_4S$ 1) γ -Keto- $\alpha\epsilon$ -Diphenyl- $\alpha\delta$ -Pentadiën- β -Sulfonsäure. Sm. 140° u. Zers. Na + 4H₂O (B. 36, 1493 C. 1903 [1] 1350).
- $C_{17}H_{14}O_5N_3$ 1) α -[4-Methoxyphenyl]- β -[2-Oxy-3-Diazoanhydrid-4-Methoxyphenyl]akrylsäure. Zers. bei 145° (B. 35, 4408 C. 1903 [1] 343).
- $C_{17}H_{14}O_5N_4$ C 57,6 — H 4,0 — O 22,6 — N 15,8 — M. G. 354.
- 1) Amid d. β -Cyan- $\alpha\gamma$ -Di[4-Nitrophenyl]propan- β -Carbonsäure. Sm. 230—231° (G. 32 [2] 360 C. 1903 [1] 629).
- $C_{17}H_{14}O_6N_2$ 2) Keto-5,6-Dioxy-1-[3-Nitro-4-Dimethylamidobenzyliden]-1,2-Dihydrobenzofuran. Sm. oberh. 250° (B. 37, 824 C. 1904 [1] 1152).
- $C_{17}H_{14}O_6N_2$ C 52,3 — H 3,6 — O 36,9 — N 7,2 — M. G. 390.
- 1) Di[4-Nitrobenzoat] d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 137° (A. 335, 285 C. 1904 [2] 1285).
- $C_{17}H_{14}N_2Cl_2$ 1) ϵ -[3-Chlorphenyl]imido- α -[3-Chlorphenyl] amido- $\alpha\gamma$ -Pentadiën. Sm. 109°. HCl (A. 336, 322 C. 1904 [2] 1149).
- 2) ϵ -[4-Chlorphenyl]imido- α -[4-Chlorphenyl] amido- $\alpha\gamma$ -Pentadiën. Sm. 108—110° u. Zers. HCl (A. 333, 319 C. 1904 [2] 1149).
- $C_{17}H_{15}ON$ *20) isom. γ -Oximido- $\alpha\epsilon$ -Diphenyl- $\alpha\delta$ -Pentadiën. Sm. 151° (55°) (C. 1903 [1] 399).
- *24) 2-Oxy-1-[α -Amidobenzyl]naphtalin. (HCl, HgCl₂), (2HCl, PtCl₄), Pikrat (G. 33 [1] 2 C. 1903 [1] 924).
- 28) 4-Amidophenyl-[4-Oxy-1-Naphtyl]methan. Sm. 174—175°. HCl (M. 23, 982 C. 1903 [1] 288).
- 29) 7-Oxy-2-Aethyl-4-Phenylchinolin. Sm. 251° (B. 36, 4018 C. 1904 [1] 293).
- 30) Methyläther d. 4-[4-Oxybenzyl]isochinolin. Fl. (2HCl, PtCl₄) (A. 326, 292 C. 1903 [1] 929).
- $C_{17}H_{15}ON_3$ 14) 5-Amido-4-Benzoyl-3-Methyl-1-Phenylpyrazol. Sm. 153°. HCl (B. 36, 525 C. 1903 [1] 641).
- 15) Monoacetylderivat d. 2-[β -2-Amidophenyläthenyl]benzimidazol. Sm. oberh. 285° (C. 1904 [1] 103).
- 16) Monoacetylderivat d. 2-[β -4-Amidophenyläthenyl]benzimidazol (C. 1904 [1] 103).
- $C_{17}H_{15}ON_5$ 3) α -Oximido-4,4'-Di[Methylcyanamidophenyl]methan. Sm. 173° (B. 37, 2674 C. 1904 [2] 443).
- $C_{17}H_{15}OCl$ 1) ϵ -Chlor- γ -Keto- $\alpha\epsilon$ -Diphenyl- α -Penten. Sm. 84—95° (B. 36, 2375 C. 1903 [2] 495).
- 2) Hydrochlorid d. Dibenzalaceton (B. 37, 3288 C. 1904 [2] 1038).
- $C_{17}H_{15}OBr$ 1) Hydrobromid d. Dibenzalaceton. Sm. 100° (B. 36, 3537 C. 1903 [2] 1368).
- 2) isom. Hydrobromid d. Dibenzalaceton. Sm. 119—121° (B. 37, 3365 C. 1904 [2] 1122).
- $C_{17}H_{16}OBr_3$ 1) $\alpha\beta\epsilon$ -Tribrom- γ -Keto- $\alpha\epsilon$ -Diphenylpentan. Sm. 134—137° (B. 37, 3368 C. 1904 [2] 1123).
- $C_{17}H_{15}O_2N$ 23) 2-Oxy-1-[α -Amido-2-Oxybenzyl]naphtalin. HCl (G. 33 [1] 15 C. 1903 [1] 925).
- 24) Methylenäther d. γ -[2-Methylphenyl]imido- α -[3,4-Dioxyphenyl]-propen. Sm. 94—95° (B. 37, 1699 C. 1904 [1] 1497).

- C₁₇H₁₆O₂N** 25) Methylenäther d. γ -[3-Methylphenyl]imido- α -[3,4-Dioxyphenyl]propen. Sm. 95° (*B.* 37, 1699 *C.* 1904 [1] 1497).
 26) Methylenäther d. γ -[4-Methylphenyl]imido- α -[3,4-Dioxyphenyl]propen. Sm. 138° (*B.* 37, 1700 *C.* 1904 [1] 1497).
 27) Aethyläther d. 4-Oxy-1-Keto-3-Phenyl-1,2-Dihydroisochinolin. Sm. 183° (*B.* 37, 1691 *C.* 1904 [1] 1524).
 28) Imid d. $\alpha\beta$ -Diphenylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 162—163° (*B.* 33, 2009). — *II, 1098.
 29) 4-Methylphenylimid d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 138—139° (*Soc.* 85, 1367 *C.* 1904 [2] 1646).
- C₁₇H₁₆O₂N₃** 20) 4-Oximido-5-Keto-3-Methyl-1-Diphenylmethyl-4,5-Dihydropyrazol. Sm. 182° u. Zers. + C₂H₆O (*J. pr.* [2] 67, 174 *C.* 1903 [1] 874).
 21) Aethylester d. 1,5-Diphenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 134—135° (*B.* 35, 4048 *C.* 1903 [1] 169).
- C₁₇H₁₆O₃N** 26) γ -Keto- γ -[5-Acetylamido-2-Oxyphenyl]- α -Phenylpropen. Sm. 190° (*B.* 37, 2826 *C.* 1904 [2] 704).
 27) Dimethyläther d. 3-Phenyl-5-[3,5-Dioxyphenyl]isoxazol. Sm. 82° (83°) (*B.* 35, 3904 *C.* 1903 [1] 27; *B.* 36, 2301 *C.* 1903 [2] 577).
 28) Phenylamidoformiat d. 1-[α -Oxyäthyl]benzfuran. Sm. 126° (*B.* 36, 2869 *C.* 1903 [2] 833).
- C₁₇H₁₆O₃N₆** C 60,5 — H 4,4 — O 14,2 — N 20,8 — M. G. 337.
 1) Amid d. Methyl-4-[α -Cyan-4-Nitrobenzyliden]amidophenylamidoessigsäure. Sm. 229° (*B.* 37, 2638 *C.* 1904 [2] 519).
- C₁₇H₁₆O₃Cl** *1) Aethylester d. α -Benzoyl- α -[4-Chlorphenyl]essigsäure. Sm. 91° (*J. pr.* [2] 67, 387 *C.* 1903 [1] 1357).
- C₁₇H₁₆O₄N** 16) Aethyläther d. α -Oxy- γ -Keto- γ -Phenyl- α -[4-Nitrophenyl]propen. Sm. 89—90° (*Soc.* 85, 463 *C.* 1904 [1] 1079, 1438).
 17) 5,6-Dioxy-2-Keto-1-[4-Dimethylamidobenzyliden]-1,2-Dihydrobenzfuran. Sm. 203° (281°) (*B.* 29, 2434; *B.* 37, 823 *C.* 1904 [1] 1151). — *III, 532.
- C₁₇H₁₆O₄N₃** 3) α -Acetylphenylhydrazid d. Phenylimidoessigsäure-2-Carbonsäure. Sm. 268° (*A.* 332, 238 *C.* 1904 [2] 38).
- C₁₇H₁₆O₄N₆** C 57,8 — H 4,2 — O 18,1 — N 19,8 — M. G. 353.
 1) ϵ -[2,4-Dinitrophenyl]imido- α -Phenylhydrazido- $\alpha\gamma$ -Pentadien. Sm. 140° u. Zers. (*A.* 333, 327 *C.* 1904 [2] 1150).
- C₁₇H₁₆O₄Br** 1) Dimethyläther d. 3-Brom-7,8-Dioxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 110° (*B.* 36, 4243 *C.* 1904 [1] 382).
 2) α -Benzoat d. α -Oxyäthyl-3-Brom-4-Oxyphenylketon-4-Methyläther. Sm. 116° (*B.* 37, 1548 *C.* 1904 [1] 1437).
- C₁₇H₁₆O₅N** 10) 2³,6-Dimethyläther d. 3-Oximido-6-Oxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 164—166° u. Zers. (*B.* 37, 2348 *C.* 1904 [2] 230).
 11) 2³,6-Dimethyläther d. 3-Oximido-6-Oxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 153—154° u. Zers. (*B.* 37, 958 *C.* 1904 [1] 1160).
 12) 2⁴,6-Dimethyläther d. 3-Oximido-6-Oxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 157—158° u. Zers. (*B.* 37, 783 *C.* 1904 [1] 1159).
 13) 2⁵,7-Dimethyläther d. 3-Oximido-7-Oxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 195° u. Zers. (*B.* 37, 4157 *C.* 1904 [2] 1658).
 14) 2³,7-Dimethyläther d. 3-Oximido-7-Oxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 160° u. Zers. (*B.* 37, 4160 *C.* 1904 [2] 1658).
 15) 2⁴,7-Dimethyläther d. 3-Oximido-7-Oxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 170° u. Zers. (*B.* 37, 4162 *C.* 1904 [2] 1659).
 16) 5,7-Dimethyläther d. 3-Oximido-5,7-Dioxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 175—177° u. Zers. (*B.* 37, 2804 *C.* 1904 [2] 712).
 17) 7,8-Dimethyläther d. 3-Oximido-7,8-Dioxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 166° u. Zers. (*B.* 37, 2807 *C.* 1904 [2] 713).
- C₁₇H₁₆O₅N₃** 9) Acetat d. α -Acetyl- α -Phenyl- β -[3-Nitro-2-Oxybenzyliden]hydrazin. Sm. 156° (150°) (*A.* 305, 190; *B.* 37, 3913 *C.* 1904 [2] 1593; *B.* 37, 3931 *C.* 1904 [2] 1596).

- $C_{17}H_{15}O_5N_3$ 10) Acetat d. α -Acetyl- α -Phenyl- β -[5-Nitro-2-Oxybenzyliden]hydrazin. Sm. 166—167° (165—166°) (*A.* 305, 188; *B.* 37, 3913 *C.* 1904 [2] 1593; *B.* 37, 3931 *C.* 1904 [2] 1595).
- 11) Acetat d. α -Acetyl- α -Phenyl- β -[3-Nitro-4-Oxybenzyliden]hydrazin (*B.* 37, 3932 *C.* 1904 [2] 1596).
- $C_{17}H_{15}O_5Br$ 2) 9-Brom-1,3,8-Tribrom-2,4,5,7-Tetramethylfluoron (*M.* 25, 681 *C.* 1904 [2] 1145).
- $C_{17}H_{15}O_6N$ 5) Benzoylderivat d. Säure $C_{10}H_{11}O_6N$. Sm. 138° (*A.* 325, 338 *C.* 1903 [1] 771).
- $C_{17}H_{15}O_7N$ *1) Papaverinsäuremethylbetain. ($4 + 4HCl$, $PtCl_4 + 8H_2O$), (HCl , $AuCl_3 + H_2O$) (*M.* 24, 693 *C.* 1903 [2] 1281; *M.* 24, 714 *C.* 1904 [1] 218).
- $C_{17}H_{15}N_2Cl_3$ 1) Isochinolin + $\beta\beta\gamma$ -Trichlor- α -Phenylamidopropan. + $AuCl_3$ (*Ar.* 240, 706 *C.* 1903 [1] 403; *Ar.* 241, 120 *C.* 1903 [1] 1023).
- $C_{17}H_{15}N_4Cl$ 2) 5-Chlor-4-[2-Methylphenyl]azo-3-Methyl-1-Phenylpyrazol. Sm. 97° (D.R.P. 153861 *C.* 1904 [2] 680).
- $C_{17}H_{15}ON_2$ 17) 5-Keto-3-Aethyl-1,4-Diphenyl-4,5-Dihydropyrazol. Sm. 197° (*B.* 36, 2244 *C.* 1903 [2] 435).
- 18) 5-Keto-1-Diphenylmethyl-3-Methyl-4,5-Dihydropyrazol. Sm. 195° (*J. pr.* [2] 67, 173 *C.* 1903 [1] 874).
- 19) 3-Keto-2-[4-Dimethylamidobenzyliden]-2,3-Dihydroindol. Sm. 226 bis 227° (*C.* 1903 [1] 34).
- 20) 2-Acetylamido-3,7-Dimethylakridin. Sm. 258° (270°) (*B.* 36, 1026 *C.* 1903 [1] 1269; *Soc.* 85, 529 *C.* 1904 [1] 676, 1525).
- $C_{17}H_{15}ON_4$ 4) 5-Keto-4-[2-Methylphenyl]azo-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 183° (D.R.P. 153861 *C.* 1904 [2] 680).
- 5) 5-Keto-4-[4-Methylphenyl]azo-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 136—137° (*Soc.* 83, 1124 *C.* 1903 [2] 23, 791).
- $C_{17}H_{16}OCl_2$ 1) Dihydrochlorid d. Dibenzalacetone (*B.* 36, 1473 *C.* 1903 [1] 1348; *B.* 36, 2376 *C.* 1903 [2] 495; *B.* 36, 3543 *C.* 1903 [2] 1369; *B.* 37, 3290 *C.* 1904 [2] 1040).
- $C_{17}H_{16}OBr_2$ 3) Dihydrobromid d. Dibenzalacetone (*B.* 36, 3539 *C.* 1903 [2] 1369).
- 4) isom. Dihydrobromid d. Dibenzalacetone. Sm. 124—126° u. Zers. (*B.* 36, 3541 *C.* 1903 [2] 1369; *B.* 37, 3364 *C.* 1904 [2] 1122).
- $C_{17}H_{16}O_2N_2$ 29) 1-Methylamido-8-Dimethylamido-9,10-Anthrachinon (D.R.P. 144634 *C.* 1903 [2] 751).
- 30) Methyläther d. 4-Oxy-3-Keto-1-Methyl-2,5-Diphenyl-2,3-Dihydropyrazol. Sm. 155° (*B.* 36, 1137 *C.* 1903 [1] 1254).
- 31) Äthylester d. Azobenzol-4-Akrylsäure. Sm. 101—102° (*C. r.* 135, 1118 *C.* 1903 [1] 286).
- $C_{17}H_{16}O_2Br_2$ *3) Benzoat d. 2,6-Dibrom-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 80 bis 81° (*M.* 24, 72 *C.* 1903 [1] 767).
- $C_{17}H_{16}O_3N_2$ 24) Acetat d. α -Acetyl- α -Phenyl- β -[4-Oxybenzyliden]hydrazin. Sm. 148° (*B.* 36, 3975 *C.* 1904 [1] 163).
- 25) Di[Methylphenylamid] d. Mesoxalsäure. Sm. 172° (*Soc.* 83, 43 *C.* 1903 [1] 442).
- $C_{17}H_{16}O_3N_4$ 9) Äthylester d. β -Phenylazo- β -Phenylhydrazon- α -Ketoäthan- α -Carbonsäure. Sm. 144—145° (*Bl.* [3] 31, 96 *C.* 1904 [1] 581).
- $C_{17}H_{16}O_4N_2$ *6) $\alpha\beta$ -Di[Benzoylamido]propionsäure. Sm. 195° (*J. pr.* [2] 70, 181 *C.* 1904 [2] 1397).
- 15) Äthylester d. $\alpha\beta$ -Dibenzoylhydrazin- α -Carbonsäure. Sm. 130° (*J. pr.* [2] 70, 276 *C.* 1904 [2] 1544).
- 16) Acetylderivat d. Verb. $C_{15}H_{14}O_3N_2$. Zers. oberh. 265° (*B.* 37, 371 *C.* 1904 [2] 1565).
- $C_{17}H_{16}O_4N_4$ 3) 8-Nitro-1,4,5-Tri[Methylamido]-9,10-Anthrachinon (D.R.P. 144634 *C.* 1903 [2] 751).
- 4) 3,5-Diketo-1-Phenylhexahydro-1,2,4-Triazin-4-Phenylamidoessigsäure. Sm. 176° (*B.* 36, 3890 *C.* 1904 [1] 28).
- $C_{17}H_{16}O_4Br_2$ 1) Verbindung (aus ?-Brom-8-Oxy-5,7-Dimethylfluoron). Sm. 99—100° (*M.* 25, 330 *C.* 1904 [1] 1495).
- $C_{17}H_{16}O_4S$ 1) Cinnamylidenacetophenonhydrosulfonsäure. K (*B.* 37, 4053 *C.* 1904 [2] 1649).
- $C_{17}H_{16}O_5N_2$ 13) β -Keto- α -Di[4-Nitrobenzyl]propan. Sm. 108,5—109,5° (*B.* 37, 1993 *C.* 1904 [2] 26).

- $C_{17}H_{16}O_5N_2$ 14) β -Keto- α -Di[4-Nitrobenzyl]propan. Sm. 136—138° (B. 37, 1993 C. 1904 [2] 26).
- 15) Phenylmonamid d. β -[2-Nitrophenyl]propan- α -Dicarbonsäure. Fl. (B. 36, 2674 C. 1903 [2] 948).
- $C_{17}H_{16}O_5S$ 16) Phenylmonamid d. Iso- β -[2-Nitrophenyl]propan- α -Dicarbonsäure. Sm. 129° (B. 36, 2674 C. 1903 [2] 948).
- $C_{17}H_{16}O_7N_2$ 1) Dibenzalacetonydrosulfat (B. 36, 1481 C. 1903 [1] 1349).
C 56,7 — H 4,4 — O 31,1 — N 7,8 — M. G. 360.
- 1) Diäthyläther d. 3,3'-Dinitro-4,4'-Dioxydiphenylketon. Sm. 132° (G. 34 [1] 384 C. 1904 [2] 111).
- 2) 3-[6-Oxy-3-Methylcarboxyphenylamid] d. 4-Oxybenzol-1-Carbonsäure-3-Amidoessigsäure? Sm. noch nicht bei 280° (A. 325, 334 C. 1903 [1] 771).
C 45,5 — H 3,6 — O 32,1 — N 18,8 — M. G. 448.
- $C_{17}H_{16}O_6N_6$ 1) 3,5,3',5'-Tetranitro-4,4'-Di[Dimethylamido]diphenylketon. Sm. 202° (G. 34 [1] 383 C. 1904 [2] 111).
- $C_{17}H_{16}NJ$ 5) Jodmethylyat d. 2-Benzylechinolin. Zers. bei 220° (B. 37, 3400 C. 1904 [2] 1318).
- 6) Jodmethylyat d. 1-Benzylisochinolin. Sm. 247—248° (B. 37, 3398 C. 1904 [2] 1317).
- 7) Jodmethylyat d. 4-Benzylisochinolin. Sm. 188° (A. 326, 295 C. 1903 [1] 929).
- 8) Jodmethylyat d. Base $C_{16}H_{13}N$ (aus Morphin) (B. 34, 1163). — *III, 668.
- $C_{17}H_{16}N_2S$ 3) Benzyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 246°₂₀ (A. 331, 237 C. 1904 [1] 1221).
- $C_{17}H_{17}ON$ *17) d-1-neo-1-Benzoylamido-2-Methyl-2,3-Dihydroinden. Sm. 169° (Soc. 83, 917 C. 1903 [2] 505; Soc. 83, 928 C. 1903 [2] 505).
- 25) γ -Benzoylamido- α -Phenyl- α -Buten. Sm. 136—137° (B. 36, 3002 C. 1903 [2] 949).
- 26) d-1-1-Benzoylamido-2-Methyl-2,3-Dihydroinden. Sm. 151° (Soc. 83, 917 C. 1903 [2] 505; Soc. 83, 927 C. 1903 [2] 505).
- 27) γ -Oximido- α -Diphenyl- α -Penten. Sm. 95—105° (A. 330, 234 C. 1904 [1] 945).
- 28) Methyläther d. 3,5-Dimethyl-2-[4-Oxyphenyl]indol. Sm. 134° (B. 37, 871 C. 1904 [1] 1154).
- 29) Methyläther d. 3,7-Dimethyl-2-[4-Oxyphenyl]indol. Sm. 127° (B. 37, 870 C. 1904 [1] 1154).
- 30) 2-Benzoylmethyl-1,2,3,4-Tetrahydroisochinolin. Sm. 100—101° (B. 36, 1161 C. 1903 [1] 1186).
- 31) 4-Methylphenylamid d. Phenylisocrotonsäure. Sm. 149° (B. 37, 2001 C. 1904 [2] 24).
- $C_{17}H_{17}ON_3$ 8) γ -Phenylsemicarbazon- α -Phenyl- α -Buten. Sm. 195° (B. 37, 3183 C. 1904 [2] 991).
- $C_{17}H_{17}O_2N$ *21) Apomorphin. + $(C_2H_5)_2O$ (B. 35, 4383 C. 1903 [1] 337; C. 1903 [2] 1449).
- 41) γ -[3-Oxyphenyl]imido- α -Oxy- α -Phenyl- α -Penten. Sm. 139° (B. 36, 4018 C. 1904 [1] 293).
- 42) 4-Propionylamido-3-Methyldiphenylketon. Sm. 128° (Soc. 85, 593 C. 1904 [1] 1554).
- 43) 6-Propionylamido-3-Methyldiphenylketon. Sm. 99° (Soc. 85, 596 C. 1904 [1] 1554).
- 44) Benzoylphenylamid d. Isobuttersäure. Sm. 83° (Bl. [3] 31, 626 C. 1904 [2] 98).
- $C_{17}H_{17}O_2N_3$ 10) γ -Phenylsemicarbazon- α -[2-Oxyphenyl]- α -Buten + H_2O . Sm. 183 bis 184° u. Zers. (B. 37, 3184 C. 1904 [2] 991).
- 11) Benzylidenhydrazid d. α -Benzoylamidopropionsäure. Sm. 194° (J. pr. [2] 70, 143 C. 1904 [2] 1394).
- $C_{17}H_{17}O_2N_5$ C 63,2 — H 5,2 — O 9,9 — N 21,7 — M. G. 323.
- 1) 4-Phenylhydroxylamidoazo-3-Keto-2-Phenyl-1,5-Dimethyl-2,3-Dihydropyrazol. Sm. 105° u. Zers. (A. 328, 70 C. 1903 [2] 249).
- $C_{17}H_{17}O_3N$ 40) Methylenäther d. 6-Benzoylamido-3,4-Dioxy-1-Propylbenzol. Sm. 151° (Ar. 242, 89 C. 1904 [1] 1007).
- 41) 6-Aethyläther d. 4-Oximido-6-Oxy-2-Phenyl-2,3-Dihydrobenzopyran. Sm. 185—186° (B. 33, 1484). — *III, 559.

- $C_{17}H_{17}O_5N$ 42) Aethylester d. 4-Benzoyl-2-Methylphenylamidoameisensäure. Sm. 88° (Soc. 85, 594 C. 1904 [1] 1554).
- 43) Aethylester d. 2-Benzoyl-4-Methylphenylamidoameisensäure. Sm. 58° (Soc. 85, 596 C. 1904 [1] 1554).
- 44) Phenylamidoformiat d. 1-(α -Oxyäthyl)-1,2-Dihydrobenzofuran. Sm. 73° (B. 36, 2871 C. 1903 [2] 833).
- $C_{17}H_{17}O_5N_5$ 6) d- γ -Semicarbazon- $\alpha\gamma$ -Diphenylbuttersäure. Sm. 107—110° (Soc. 85, 1369 C. 1904 [2] 1647).
- 7) i- γ -Semicarbazon- $\alpha\gamma$ -Diphenylbuttersäure. Sm. 189—191° (Soc. 85, 1364 C. 1904 [2] 1646).
- 8) Phenylamid d. Benzoylamidoacetylamidoessigsäure. Sm. 238—240° (J. pr. [2] 70, 80 C. 1904 [2] 1033).
- 9) Di[Methylphenylamid] d. Oximidomalonsäure. Sm. 109°. + CH_4O (Soc. 83, 42 C. 1903 [1] 442).
- 10) isom. Di[Methylphenylamid] d. Oximidomalonsäure. Sm. 192° (Soc. 83, 43 C. 1903 [1] 442; C. 1904 [1] 1555).
- 11) Di[2-Methylphenylamid] d. Oximidomalonsäure. Sm. 111°. K (Soc. 83, 39 C. 1903 [1] 441).
- 12) Di[4-Methylphenylamid] d. Oximidomalonsäure. Sm. 170—171°. K, Ag (Soc. 83, 36 C. 1903 [1] 73, 441).
- 13) α -Phenylhydrazid d. Phenylimidoessigsäure-2-Carbonsäureäthylester. Sm. 140—141° u. Zers. (A. 332, 236 C. 1904 [2] 38).
- 14) Benzoylhydrazid d. α -Benzoylamidopropionsäure. Sm. 180—184° (J. pr. [2] 70, 144 C. 1904 [2] 1394).
- $C_{17}H_{17}O_4N$ *14) 4-Aethoxyphenylamid d. 2-Acetoxybenzol-1-Carbonsäure. Sm. 132° (B. 37, 3976 C. 1904 [2] 1605).
- 25) Aethyläther d. β -Nitro- γ -Keto- α -Oxy- $\alpha\gamma$ -Diphenylpropan. Sm. 119° (A. 328, 240 C. 1903 [2] 999).
- 26) Benzoylepinephrin. H_2SO_4 , Pikrat (H. 28, 318; 29, 105; B. 36, 1839). — *III, 667.
- 27) Diacetat d. $\alpha\beta$ -Dioxy- α -Phenyl- β -[2-Pyridyl]äthan. Sm. 36—37° (B. 36, 121 C. 1903 [1] 470).
- $C_{17}H_{17}O_4N_5$ 5) Aethylester d. α -Phenyl- β -[3-Nitrobenzyliden]hydrazidoessigsäure. Sm. 86° (B. 36, 3884 C. 1904 [1] 27).
- 6) Di[Methylphenylamid] d. Nitromalonsäure. Sm. 156° u. Zers. (C. 1904 [1] 1555).
- $C_{17}H_{17}O_5N$ 12) Dimethyläther d. γ -Keto- $\alpha\alpha$ -Dioxy- γ -Phenyl- α -[4-Nitrophenyl]propan. Sm. 91° (B. 37, 1150 C. 1904 [1] 1267).
- 13) Trimethyläther d. α -[4-Oxyphenyl]- β -[2-Nitro-3,4-Dioxyphenyl]äthan. Sm. 156° (B. 35, 4404 C. 1903 [1] 342).
- 14) α -[4-Methoxyphenyl]- β -[2-Amido-3-Oxy-4-Methoxyphenyl]akrylsäure. Sm. 150—152° (B. 35, 4408 C. 1903 [1] 342).
- $C_{17}H_{17}O_5N_5$ C 55,0 — H 4,6 — O 21,5 — N 18,9 — M. G. 371.
- 1) Amid d. 1-[Methyl- α -Carboxyäthylamido]-4-[2,4-Dinitrobenzyliden]amidobenzol. Sm. 235—238° (B. 36, 763 C. 1903 [1] 963).
- $C_{17}H_{17}N_2Br$ 4) Bromphenylat d. 2-Phenylamido-1,2-Dihdropyridin. Sm. 162° (J. pr. [2] 69, 109, 123 C. 1904 [1] 814).
- $C_{17}H_{18}O_2N_2$ *11) 3,6-Di[Dimethylamido]xanthon. Sm. 240°. (2HCl, PtCl₄) (B. 37, 204 C. 1904 [1] 664).
- *23) Di[4-Methylphenylamid] d. Malonsäure. Sm. 250° (Soc. 83, 36 C. 1903 [1] 441).
- *38) Aethyläther d. Benzoylimido-4-Methylphenyloxymethan. Sm. 77 bis 78° (Am. 32, 367 C. 1904 [2] 1507).
- *39) α -Acetyl- $\alpha\beta$ -Di[4-Methylphenyl]harnstoff. Sm. 148° (B. 37, 3119 C. 1904 [2] 1317).
- *40) $\alpha\beta$ -Dibenzoyl- α -Propylhydrazin. Sm. 131° (J. pr. [2] 70, 279 C. 1904 [2] 1545).
- 43) Di[4-Acetylphenylamido]methan. Sm. 188° (B. 37, 397 C. 1904 [1] 658).
- 44) Dioxim d. Dimethylphenyl-m-Biscyklohexanon. Sm. 103—105° (B. 36, 2146 C. 1903 [2] 369).
- 45) isom. Dioxim d. Dimethylphenyl-m-Biscyklohexanon. Sm. 190 bis 193° (B. 36, 2147 C. 1903 [2] 369).

- $C_{17}H_{18}O_2N_2$ 46) $\alpha\beta$ -Diacetyl- α -Diphenylmethylhydrazin. Sm. 197—198° (*J. pr.* [2] 67, 169 *C.* 1903 [1] 873).
- 47) α -[4-Methylphenyl]imido- α -[Methyl-4-Methylphenyl]amidoessigsäure. Zers. bei 80—81° (*Soc.* 85, 997 *C.* 1904 [2] 321, 831).
- 48) Methylester d. 4-Methylphenylimido-4-Methylphenylamidoessigsäure. Sm. 103°. (2HCl, PtCl₄) (*Soc.* 85, 994 *C.* 1904 [2] 831).
- 49) Methylester d. 2-[α -Dimethylamidobenzyliden]amidobenzol-1-Carbonsäure. Sm. 109°. Pikrat (*B.* 37, 2681 *C.* 1904 [2] 521).
- 50) 4-Methylphenylamid d. α -Benzoylamidopropionsäure. Sm. 172 bis 175° (*J. pr.* [2] 70, 147 *C.* 1904 [2] 1394).
- 51) Di[2-Methylphenylamid] d. Malonsäure. Sm. 193° (*Soc.* 83, 39 *C.* 1903 [1] 441).
- $C_{17}H_{18}O_2N_4$ 10) α -Semicarbazido- γ -[3-Oxyphenyl]imido- α -Phenyl- α -Buten. Sm. 124° (*B.* 36, 2452 *C.* 1903 [2] 670).
- $C_{17}H_{18}O_2Br_2$ 2) 3, 3'-Dibrom-4, 4'-Dioxy-2, 5, 2', 5'-Tetramethyldiphenylmethan. Sm. 152—153° (*B.* 36, 1890 *C.* 1903 [2] 291; *B.* 37, 1471 *C.* 1904 [1] 1518).
- $C_{17}H_{18}O_2S_2$ 2) $\alpha\alpha$ -Dimerkaptopropiondibenzyläthersäure. Sm. 98—100° (*B.* 36, 299 *C.* 1903 [1] 499).
- $C_{17}H_{18}O_3N_2$ 17) Methyläther d. 4, 4'-Di[Acetylamido]-2-Oxybiphenyl. Sm. 285° (*B.* 36, 4079 *C.* 1904 [1] 268).
- 18) Äthyläther d. N-Formyl-4'-Formylamido-4-Oxy-2-Methyldiphenylamin. Sm. 140° (*B.* 36, 3860 *C.* 1904 [1] 91).
- 19) 4-Methyläther- α -Äthyläther d. α -Benzoylimido- α -[3-Oxyphenyl]amido- α -Oxymethan. Sm. 66—67° (*Am.* 32, 367 *C.* 1904 [2] 1507).
- 20) Phenylamid d. α -Phenylamidoformoxylbuttersäure. Sm. 153—154° (*Bl.* [3] 29, 126 *C.* 1903 [1] 564).
- 21) Phenylamid d. α -Phenylamidoformoxylisobuttersäure. Sm. 155 bis 156° (*Bl.* [3] 29, 127 *C.* 1903 [1] 564).
- $C_{17}H_{18}O_3N_4$ 5) α -[3-Nitrobenzyliden]amido- β -Äthyl- α -Benzylharnstoff. Sm. 106° (*B.* 37, 2326 *C.* 1904 [2] 312).
- 6) s-Di[2-Methylphenylamidoformyl]harnstoff. Sm. 190° (*Soc.* 81, 1571 *C.* 1903 [1] 158).
- $C_{17}H_{18}O_3S$ 2) α -[4-Methylphenyl]sulfon- γ -Keto- α -Phenylbutan (*Am.* 31, 178 *C.* 1904 [1] 876). — *III, 119.
- $C_{17}H_{18}O_4N_2$ 26) Dimethyläther d. Di[4-Oxybenzoylamido]methan. Sm. 206—207,5 (*B.* 37, 4099 *C.* 1904 [2] 1726).
- 27) Propyl-2, 4, 6-Triox-5-Phenylazo-3-Methylphenylketon. Sm. 182° (*A.* 329, 339 *C.* 1904 [1] 801).
- 28) Methylester d. β -Nitro- γ -Phenylamido- γ -Phenylbuttersäure. Sm. 122° (*A.* 329, 254 *C.* 1904 [1] 31).
- 29) Di[Methylphenylamid] d. Dioxymalonsäure. Sm. 184° (*C.* 1904 [1] 1555).
- $C_{17}H_{18}O_4N_4$ 3) $\alpha\beta$ -Di[β -Phenylureido]propionsäure. Sm. 214° u. Zers. (*B.* 37, 344 *C.* 1904 [1] 646).
- $C_{17}H_{18}O_4S$ 2) Methylester d. β -[4-Methylphenyl]sulfon- β -Phenylpropionsäure. Sm. 156° (*Am.* 31, 173 *C.* 1904 [1] 876).
- 3) Äthylester d. β -Phenylsulfon- β -Phenylpropionsäure. Sm. 139° (*Am.* 31, 174 *C.* 1904 [1] 876).
- $C_{17}H_{18}O_6N_2$ 5) Verbindung (aus Oximidocampher u. 3-Nitrobenzoylchlorid). Sm. 136 bis 137° (*Soc.* 83, 533 *C.* 1903 [1] 1136, 1353).
- 6) isom. Verbindung (aus Oximidocampher u. 3-Nitrobenzoylchlorid). Sm. 152° (*Soc.* 83, 534 *C.* 1903 [1] 1136, 1353).
- $C_{17}H_{18}O_6N_4$ 5) 3, 3'-Dinitro-4, 4'-Di[Dimethylamido]diphenylketon. Sm. 150° (*G.* 34 [1] 386 *C.* 1904 [2] 111).
- 6) Diphenylcarbaziddiessigsäure. Sm. 235° u. Zers. (*B.* 36, 3889 *C.* 1904 [1] 28).
- $C_{17}H_{18}O_8N_2$ *4) α' -Nitro- α -[3-Nitrobenzoyl]campher. Sm. 175° u. Zers. (*Soc.* 83, 541 *C.* 1903 [1] 1354).
- 5) α -Nitro- α' -[3-Nitrobenzoyl]campher. Sm. 112—113° (*Soc.* 83, 541 *C.* 1903 [1] 1354).
- $C_{17}H_{18}O_8S_2$ 2) Dibenzylidenacetonbishydrosulfonsäure. $K_2 + 3\frac{1}{2}H_2O$ (*B.* 37, 4054 *C.* 1904 [2] 1649).

- $C_{17}H_{18}NCl$ 1) Chloräthylat d. d-2-Propyl-1-Benzylhexahydropyridin (Ch. d. N-Benzyleonin). 2 + $PtCl_4$ (B. 37, 3632 C. 1904 [2] 1510).
2) isom. Chloräthylat d. d-2-Propyl-1-Benzylhexahydropyridin. 2 + $PtCl_4$ (B. 37, 3632 C. 1904 [2] 1510).
- $C_{17}H_{18}NJ$ 2) Jodmethylat d. 9-Dimethylamidophenanthren. Sm. 217° u. Zers. (B. 36, 2516 C. 1903 [2] 507).
- $C_{17}H_{18}N_3Cl$ 2) Chlormethylat d. 5-Phenylamido-3-Methyl-1-Phenylpyrazol. 2 + $PtCl_4$, + $AuCl_3$ (B. 36, 3276 C. 1903 [2] 1189).
- $C_{17}H_{18}N_3J$ 2) Jodmethylat d. 5-Phenylamido-3-Methyl-1-Phenylpyrazol. Sm. 174° (B. 34, 726; B. 36, 3276 C. 1903 [2] 1189).
- $C_{17}H_{19}ON$ 29) γ -Benzoylamidobutylbenzol. Sm. 108° (B. 36, 3000 C. 1903 [2] 949).
30) Methylphenylamid d. dl- β -Phenylisobuttersäure. Sm. 54–55° (Soc. 85, 445 C. 1904 [1] 1445).
31) 4-Methylphenylamid d. dl- β -Phenylisobuttersäure. Sm. 130° (Soc. 85, 445 C. 1904 [1] 1445).
32) 4-Methylphenylamid d. d- β -Phenylisobuttersäure. Sm. 115–116° (Soc. 85, 446 C. 1904 [1] 1445).
33) α -Phenyläthylamid d. β -Phenylpropionsäure. Sm. 89° (B. 37, 2704 C. 1904 [2] 518).
- $C_{17}H_{19}ON_3$ 8) Methylhydroxyd d. 5-Phenylamido-3-Methyl-1-Phenylpyrazol. Salze siehe (B. 36, 3276 C. 1903 [2] 1189).
- $C_{17}H_{19}OCl$ 1) α -Chlorbenzylidencampher. Sm. 100° (Soc. 83, 104 C. 1903 [1] 233, 458).
- $C_{17}H_{19}OBr$ *2) d-2-Brombenzylidencampher. Sm. 105° (C. r. 136, 71 C. 1903 [1] 459).
*3) d-4-Brombenzylidencampher. Sm. 129–130° (C. r. 136, 71 C. 1903 [1] 459).
4) i- α -Brombenzylidencampher. Sm. 56° (C. r. 132, 1574). — *III, 388.
- $C_{17}H_{19}O_2N$ *19) Aethylester d. Dibenzylamidoameisensäure. Sd. 216°₂₈ (B. 36, 2288 C. 1903 [2] 563).
43) Aethyläther d. 4-Dimethylamido-3'-Oxydiphenylketon. Sm. 90° (D.R.P. 65952). — *III, 153.
44) Phenylamidoformiat d. γ -Oxy- α -Phenylbutan. Sm. 113° (B. 37, 2314 C. 1904 [2] 217).
45) Phenylamidoformiat d. β -Oxy- α -Phenyl- β -Methylpropan. Sm. 96° (B. 37, 1723 C. 1904 [1] 1515).
- $C_{17}H_{19}O_2N_3$ 11) Phenylamid d. 4-Oxy-5-Isopropyl-2-Methylphenylazoameisensäure. Sm. 179–180° u. Zers. (A. 334, 194 C. 1904 [2] 835).
12) Di[Methylphenylamid] d. Amidomalonsäure. Sm. 108° (C. 1904 [1] 1555).
13) Verbindung (aus d. isom. Di[Methylphenylamid] d. Oximidomalonsäure oder $C_{17}H_{17}O_2N_3$). Sm. 185–186° (C. 1904 [1] 1555).
C 62,8 — H 5,8 — O 9,8 — N 21,5 — M. G. 325.
- $C_{17}H_{19}O_2N_5$ 1) β -Methyl- α -Phenylhydrazid d. α -Oximido- β -Phenylhydrazonbuttersäure. Sm. 210° (A. 328, 69 C. 1903 [2] 249).
- $C_{17}H_{19}O_2J$ *1) α -Jod- α' -Benzoylcampher (Soc. 83, 542 C. 1903 [1] 1354).
- $C_{17}H_{19}O_3N$ *9) Morphin. Ditartrat (C. 1903 [1] 525).
*15) 4-Naphtylmonamid d. mal. Pentan-3- β -Dicarbonsäure. Sm. 151 bis 152° (Bl. [3] 29, 1019 C. 1903 [2] 1315).
33) 1-Aethyläther d. 4-[Acetyl-2-Oxybenzyl]amido-1-Oxybenzol. Sm. 101° (Ar. 240, 683 C. 1903 [1] 395).
34) γ -Phenylamidoformiat d. γ -Oxy- α -[2-Oxyphenyl]butan. Sm. 90° (B. 36, 2872 C. 1903 [2] 833).
35) α -Phenylamidoformiat d. 4-Oxy-1-[α -Oxyäthyl]benzol-4-Aethyläther. Sm. 81° (B. 36, 3594 C. 1903 [2] 1366).
36) Methylphenylamidoformiat d. 3,4-Dioxy-1-Propylbenzol. Sm. 110° (C. r. 138, 425 C. 1904 [1] 798).
- $C_{17}H_{19}O_3N_8$ 9) Aethyl ester d. $\alpha\gamma$ -Diphenylsemicarbazidoessigsäure. Sm. 160° (B. 36, 3886 C. 1904 [1] 27).
- $C_{17}H_{19}O_8N_5$ C 59,8 — H 5,6 — O 14,1 — N 20,5 — M. G. 341.
1) Phenylamid d. β -Phenylureidoacetylamidomethylamidoameisensäure. Sm. 222° u. Zers. (J. pr. [2] 70, 258 C. 1904 [2] 1464).
2) Phenylhydrazid d. β -Phenylureidoacetylamidomethylamidoameisensäure. Sm. 139° u. Zers. (J. pr. [2] 70, 257 C. 1904 [2] 1464).

- $C_{17}H_{19}O_4N$ *6) α' -Nitro- α -Benzoylcampher. Sm. 225° (Soc. 83, 539 C. 1903 [1] 1354).
 9) α -Nitro- α' -Benzoylcampher. Sm. 110° (Soc. 83, 539 C. 1903 [1] 1354).
 $C_{17}H_{19}O_4N_3$ 10) Äthylester d. 2-Keto-5-Acetyl-4-Methyl-6-Phenyl-1,2,3,4-Tetrahydropyridin-3-Carbonsäure. Sm. 156° (B. 36, 2189 C. 1903 [2] 569).
 3) Verbindung (aus d. γ -d-Campherdioximmonobenzoat). Sm. 112° (Soc. 85, 912 C. 1904 [2] 598).
 $C_{17}H_{19}O_6N$ 3) Diäthylester d. δ -Keto- δ -Phenyl- β -Buten- $\alpha\beta\gamma$ -Tricarbonsäure. Sm. 137° (Soc. 75, 785). — *II, 1200.
 $C_{17}H_{19}N_3S_2$ 1) Methyläther d. α -Phenylamidothioformylimido- α -[Methyl-4-Methylphenyl]amido- α -Merkaptomethan. Sm. 124°. HJ (Am. 30, 175 C. 1903 [2] 872).
 2) Methyläther d. α -[β -2-Methylphenylthioureido]- α -[2-Methylphenyl]imido- α -Merkaptomethan. Sm. 122—123° (Am. 30, 182 C. 1903 [2] 873).
 3) Äthyläther d. α -[β -Phenylthioureido]- α -[2-Methylphenyl]imido- α -Merkaptomethan. Sm. 117—118° (Am. 30, 180 C. 1903 [2] 873).
 4) Äthyläther d. α -[β -2-Methylphenylthioureido]- α -Phenylimido- α -Merkaptomethan. Sm. 95—96° (Am. 30, 181 C. 1903 [2] 873).
 5) Dimethyläther d. Phenylimidomerkaptomethyl-2-Methylphenylimidomerkaptomethylamin. Sm. 147—148° (Am. 30, 179 C. 1903 [2] 872).
 6) Dimethyläther d. Phenylimidomerkaptomethyl-4-Methylphenylimidomerkaptomethylamin. Fl. HJ (Am. 30, 174 C. 1903 [2] 872).
 $C_{17}H_{20}ON_2$ *7) s - Di[2,4 - Dimethylphenyl]harnstoff. Sm. 260—262° (M. 25, 381 C. 1904 [2] 320).
 *24) 3,6-Di[Dimethylamido]xanthen. Sm. 113°. 2HCl, (2HCl, PtCl₄) (B. 37, 204 C. 1904 [1] 665; B. 37, 3620 C. 1904 [2] 1503).
 *36) Di[4-Methylamido-3-Methylphenyl]keton. 2HCl (C. 1903 [1] 399).
 39) Äthylbenzyl-4-Acetylamidophenylamin. Sm. 111° (A. 334, 263 C. 1904 [2] 902).
 40) β -Benzoyl- $\alpha\beta$ -Diphenyl- α -Phenylhydrazin. Sm. 59—60° (B. 35, 4186 C. 1903 [1] 143).
 $C_{17}H_{20}OBr_2$ 41) β -Benzoyl- $\alpha\beta$ -Diäthyl- α -Phenylhydrazin. Sm. 60° (C. 1903 [1] 1128).
 2) α ,4-Dibrombenzylcampher (C. r. 136, 72 C. 1903 [1] 459).
 3) 2-Brombenzylbromcampher. Fl. (C. r. 136, 71 C. 1903 [1] 459).
 4) 4-Brombenzylbromcampher. Fl. (C. r. 136, 71 C. 1903 [1] 459).
 $C_{17}H_{20}O_2N_2$ 22) 3,6-Di[Dimethylamido]-9-Oxyxanthen? Chlorid + H₂O, 2 Chlorid + PtCl₄ (D.R.P. 59003, 60505; J. pr. [2] 54, 232). — *III, 569.
 23) Acetat d. α -Oxydi[4-Amido-3-Methylphenyl]methan. Sm. 153° (C. 1903 [2] 442).
 $C_{17}H_{20}O_2S$ 2) Benzoat d. β -Merkaptocampher. Sm. 59° (Soc. 83, 483 C. 1903 [1] 923, 1137).
 $C_{17}H_{20}O_3N_2$ 10) 4'-Diäthylamido-4-Oxydiphenylamin-3-Carbonsäure. Sm. 175 bis 177° (D.R.P. 140733 C. 1903 [1] 1011).
 11) Monobenzoat d. γ -d-Campherdioxim. Sm. 172° u. Zers. (Soc. 85, 911 C. 1904 [2] 598).
 $C_{17}H_{20}O_3N_4$ 13) $\alpha\gamma$ -Di[4-Methylphenylnitrosamido]- β -Oxypropan. Sm. 223° (B. 37, 3035 C. 1904 [2] 1213).
 $C_{17}H_{20}O_4N_2$ *5) Diphenylhydrazon d. 1-Arabinose. Sm. 204—205° (B. 37, 312 C. 1904 [1] 650).
 $C_{17}H_{20}O_4N_4$ *1) Di[2-Nitro-4-Dimethylamidophenyl]methan (D.R.P. 139989 C. 1903 [1] 798).
 7) Di[4-Nitrophenylamido]- β -Methylbutan. Sm. 158° (A. 328, 130 C. 1903 [2] 790).
 $C_{17}H_{20}O_4S_2$ 9) $\beta\beta$ -Di[Benzylsulfon]propan. Sm. 153° (B. 36, 299 C. 1903 [1] 499).
 $C_{17}H_{20}O_5N_2$ 6) Äthylester d. Anhydrocotarninecyansäure. Sm. 95—96° u. Zers. (2HCl, PtCl₄) (B. 37, 2747 C. 1904 [2] 545).
 $C_{17}H_{20}O_6N_4$ 2) 5-Dimethylamido-1,2,4-Trimethylbenzol + 1,3,5-Trinitrobenzol (Soc. 85, 239 C. 1904 [1] 1006).
 $C_{17}H_{20}NJ$ *1) α -Methylallylphenylbenzylammoniumjodid (Ph. Ch. 45, 236 C. 1903 [2] 979).
 *4) d- α -Methylallylphenylbenzylammoniumjodid (B. 37, 2725 C. 1904 [2] 592).

- C₁₇H₂₁ON** *1) Phenylamidomethylenecampher (*C. r.* 136, 1223 *C.* 1903 [2] 116).
 19) 4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 153 bis 155° (*A.* 334, 337 *C.* 1904 [2] 989).
 20) Benzyliden- α -Anhydropulegonhydroxylamin. Sm. 105—106°. Pikrat (*B.* 37, 2284 *C.* 1904 [2] 441).
 21) Base (aus α -Oxybenzylidenecampher). Sm. 118—119°. Pikrat (*Soc.* 83, 108 *C.* 1903 [1] 233, 458).
 22) Base (aus α -Chlorbenzylidenecampher). Sm. 170°. Pikrat (*Soc.* 83, 107 *C.* 1903 [1] 233, 458).
- C₁₇H₂₁ON₃** 7) 4-Phenylsemicarbazone-5-Methyl-2-Isopropyl-1,2,3,4-Tetrahydrobenzol (d-Carvonphenylcarbaminsäurehydrazon). Sm. 176—177° (*B.* 37, 3183 *C.* 1904 [2] 991).
- C₁₇H₂₁OBr** *3) d-Benzylbromcampher. Sd. 94—95° (*C. r.* 136, 69 *C.* 1903 [1] 459).
 *4) isom. d-Benzylbromcampher. Sm. 91—92° (*C. r.* 136, 70 *C.* 1903 [1] 459).
 5) r-Benzylbromcampher. Sm. 112° (*C. r.* 132, 1574). — *III, 389.
- C₁₇H₂₁O₂N** *6) Benzoylamidocampher. Sm. 132° (*Soc.* 85, 895 *C.* 1904 [2] 331, 596).
C₁₇H₂₁O₂N₃ *2) 2-Nitro-4,4'-Di[Dimethylamido]diphenylmethan. Sm. 96—96,5° (D.R.P. 139989 *C.* 1903 [1] 798).
- C₁₇H₂₁O₃N** 5) Acetylparasantonimid. Sm. 169—170° (*C.* 1903 [2] 1067).
C₁₇H₂₁O₄N *20) r-Cocain. HCl, AuCl₃ + 2H₂O, HNO₃. *A.* 326, 71 *C.* 1903 [1] 841).
 22) Acetylderivat d. Parasantoninoximid. Sm. 176° (*C.* 1903 [2] 1377).
- C₁₇H₂₁O₅N** *5) Diäthylester d. 4-[2-Furanyl]-2,6-Dimethyl-1,4-Dihydropyridin-3,5-Dicarbonsäure (D. d. Hydrofuryldicarbolutidinsäure). Sm. 164° (*Soc.* 83, 378 *C.* 1903 [1] 845, 1144).
 7) Pentamethyläther d. Pentaoxydiphenylamin. Sm. 131—133° (*Ar.* 242, 512 *C.* 1904 [2] 1387).
 8) Anhydrooctarninacetylaceton. Sm. 98—99°. HCl, (2 HCl, PtCl₄) (*B.* 37, 2745 *C.* 1904 [2] 545).
- C₁₇H₂₁O₅P** *1) $\beta\beta'$ -Di[4-Methylphenoxy]isopropylphosphorigesäure. Anilinsalz, p-Toluidinsalz (*Soc.* 83, 1141 *C.* 1903 [2] 1059).
 2) $\beta\beta'$ -Di[2-Methylphenoxy]isopropylphosphorigesäure. Sm. 88—89°. Ca + 4H₂O, Anilinsalz, p-Toluidinsalz (*Soc.* 83, 1138 *C.* 1903 [2] 1059).
 3) $\beta\beta'$ -Di[3-Methylphenoxy]isopropylphosphorigesäure. Sm. 85—87°. Anilinsalz, p-Toluidinsalz (*Soc.* 83, 1140 *C.* 1903 [2] 1059).
C₁₇H₂₁O₇N₅ 1) Benzoyltetra[Amidoacetyl]amidoessigsäure + H₂O. Sm. 246—252° u. Zers. Ag (*J. pr.* [2] 70, 87, 95 *C.* 1904 [2] 1034, 1035).
- C₁₇H₂₂ON₂** *1) α -Oxydi[4-Dimethylamidophenylmethan] (*B.* 36, 4298 *C.* 1904 [1] 379).
 9) $\alpha\gamma$ -Di[4-Methylphenylamido]- β -Oxypropan. Sm. 113,5° (*B.* 37, 3035 *C.* 1904 [2] 1213).
- C₁₇H₂₂ON₄** 3) Aethyloxydhydrat d. 3-Amido-7-Dimethylamido-2-Methyl-5,10-Naphtdiazin. Nitrat (*A.* 327, 124 *C.* 1903 [1] 1221).
- C₁₇H₂₂O₂N₂** *1) Di[4-Dimethylamido-2-Oxyphenyl]methan (*B.* 37, 205 Anm. *C.* 1904 [1] 665).
 *2) Diäthyläther d. Di[4-Oxyphenylamido]methan. Sm. 89° (*B.* 36, 49 *C.* 1903 [1] 505).
- C₁₇H₂₂O₂Cl₂** 1) l-Menthylester d. 2,3-Dichlorbenzol-1-Carbonsäure. Sd. 229°₁₅ (*Soc.* 83, 1214 *C.* 1903 [2] 1330).
 2) l-Menthylester d. 2,4-Dichlorbenzol-1-Carbonsäure. Sd. 218—219°₁₅ (*Soc.* 83, 1214 *C.* 1903 [2] 1330).
 3) l-Menthylester d. 2,5-Dichlorbenzol-1-Carbonsäure. Sm. 28—29°; Sd. 243—245°₃₅ (*Soc.* 83, 1214 *C.* 1903 [2] 1330).
 4) l-Menthylester d. 2,6-Dichlorbenzol-1-Carbonsäure. Sm. 134—135° (*Soc.* 83, 1214 *C.* 1903 [2] 1330).
 5) l-Menthylester d. 3,4-Dichlorbenzol-1-Carbonsäure. Sd. 244—245°₃₅ (*Soc.* 83, 1214 *C.* 1903 [2] 1330).
 6) l-Menthylester d. 3,5-Dichlorbenzol-1-Carbonsäure. Sd. 223—225°₂₀ (*Soc.* 83, 1214 *C.* 1903 [2] 1330).
C₁₇H₂₂O₃N₆ C 54,5 — H 5,9 — O 17,1 — N 22,5 — M. G. 374.
 1) Azid d. β -[β -Benzoylamidoacetylamidobutyl]amidobuttersäure. Zers. bei 78° (*J. pr.* [2] 70, 222 *C.* 1904 [2] 1461).

- C₁₇H₂₂O₈N₂** C 58,3 — H 6,3 — O 27,4 — N 8,0 — M. G. 350.
 1) Diäthylester d. α -Benzoylamidoacetylamidoäthan- α - β -Dicarbon-
 säure. Sm. 92° (*J. pr.* [2] 70, 171 *C.* 1904 [2] 1396).
- C₁₇H₂₂O₈N₄** *1) Äthylester d. Benzoyltri[Amidoacetyl]amidoessigsäure. Sm. 213°
 (*B.* 37, 1284 *C.* 1904 [1] 1335; *B.* 37, 1299 *C.* 1904 [1] 1336; *J. pr.*
 [2] 70, 85 *C.* 1904 [2] 1034).
- C₁₇H₂₂O₈N₂** 2) Dicyanmalonacetbernsteinsäureesterlaktam. Sm. 116° (*A.* 332, 131
C. 1904 [2] 991).
- C₁₇H₂₃ON₃** 2) 3-Phenylsemicarbazon-4-Isopropyliden-1-Methylhexahydrobenzol
 (Pulegonphenylcarbaminsäurehydrazon). Sm. 132—133° (*B.* 37, 3182
C. 1904 [2] 991).
- 3) Phenylsemicarbazon d. d-Campher. Sm. 153—154° (*B.* 37, 3182
C. 1904 [2] 991).
- C₁₇H₂₃OCl** *1) 2-Chlor-3-Keto-1-Methyl-4-Isopropyl-2-Benzylhexahydrobenzol.
 Sm. 140° (*C.* 1904 [2] 1043).
- C₁₇H₂₃O₂N** 16) Benzylidentanacetonydroxylamin. Sm. 138—140° (*B.* 36, 4371
C. 1904 [1] 456).
- 17) Benzoylderivat d. β -[2-Hydroxylamido-4-Methylhexahydrophenyl]-
 propen. Sm. 63° (*B.* 36, 486 *C.* 1903 [1] 637).
- 18) β -Acetyl- γ -Keto- α -[1-Piperidyl]- α -Phenylbutan. Sm. 93° (*Soc.* 85,
 1176 *C.* 1904 [2] 1215).
- 19) Phenylamidoformiat d. isom. Terpeneol. Sm. 132° (*Soc.* 85, 1329
C. 1904 [2] 1652).
- 20) Phenylamidoformiat d. 1-Linalool. Sm. 65° (*J. pr.* [2] 67, 323
C. 1903 [1] 1137).
- 21) Phenylamidoformiat d. Alkohol C₁₀H₁₈O (aus Camphenylon). Sm. 127,5
 bis 128° (*B.* 37, 1037 *C.* 1904 [1] 1263).
- 22) Hydroxylaminderivat (aus Benzylidendihydrocarvon). Sm. 145—146°
 (*A.* 305, 269). — *III, 144.
- 23) Verbindung (aus Menthonamin). Sm. 145—146° (*C.* 1904 [1] 1517).
- 24) isom. Verbindung (aus Menthonamin). Sm. 85—86° (*C.* 1904 [1]
 1517).
- C₁₇H₂₃O₂Cl** 1) 1-Menthylester d. 2-Chlorbenzol-1-Carbonsäure. Sd. 225°₃₀ (*Soc.* 83,
 1214 *C.* 1903 [2] 1330).
- 2) 1-Menthylester d. 3-Chlorbenzol-1-Carbonsäure. Sd. 218—219°₁₄
 (*Soc.* 83, 1214 *C.* 1903 [2] 1330).
- 3) 1-Menthylester d. 4-Chlorbenzol-1-Carbonsäure. Sd. 231—232°₂₀
 (*Soc.* 83, 1214 *C.* 1903 [2] 1330).
- C₁₇H₂₃O₂Br** *2) 1-Menthylester d. 2-Brombenzol-1-Carbonsäure (*Soc.* 83, 1214
C. 1903 [2] 1330).
- C₁₇H₂₃O₂J** 1) 1-Menthylester d. 2-Jodbenzol-1-Carbonsäure. Fl. (*Soc.* 85, 1272
C. 1904 [2] 1303).
- 2) 1-Menthylester d. 3-Jodbenzol-1-Carbonsäure. Fl. (*Soc.* 85, 1273
C. 1904 [2] 1303).
- 3) 1-Menthylester d. 4-Jodbenzol-1-Carbonsäure. Fl. (*Soc.* 85, 1274
C. 1904 [2] 1303).
- C₁₇H₂₃O₃N** 18) Benzoat d. Verbindung C₁₀H₁₉O₂N. Sm. 144°. HCl (*B.* 36, 768
C. 1903 [1] 836).
- C₁₇H₂₃O₃Br** 5) isom. 4-Bromphenyloxyhomocampholsäure. Sm. 120° (*C. r.* 136, 73
C. 1903 [1] 459).
- C₁₇H₂₃O₄N** 6) Anhydrocotarninmethylpropylketon. Sm. 86—92°. (2HCl, PtCl₄)
 (*B.* 37, 214 *C.* 1904 [1] 591).
- 7) α -[3-Phenylamidoformoxyl-4-Methylhexahydrophenyl]propion-
 säure. Sm. 227° (*B.* 36, 769 *C.* 1903 [1] 836).
- C₁₇H₂₃O₄N₃** C 61,3 — H 6,9 — O 19,2 — N 12,6 — M. G. 333.
 1) Äthylester d. 2,5-Diketo-4,4-Dimethyl-1-Phenyltetrahydroimid-
 azol-3- α -Amidoisobuttersäure. Sm. 98° (*C.* 1904 [2] 1029).
- C₁₇H₂₃O₅N₃** C 58,5 — H 6,6 — O 22,9 — N 12,0 — M. G. 349.
 1) β -[β -Benzoylamidoacetylamidobutyl]amidobuttersäure. Sm. 147°.
 NH₃, Ag (*J. pr.* [2] 70, 219 *C.* 1904 [2] 1461).
- 2) Äthylester d. α -[α -Benzoylamidoacetylamidopropionyl]amido-
 propionsäure. Sm. 174—175° (*J. pr.* [2] 70, 123 *C.* 1904 [2] 1037).
- C₁₇H₂₃O₅Cl** 1) Chlorhydrin d. Dehydrodioxyparasantonsäuredimethylester. Sm.
 146° (*C.* 1903 [2] 1447).

- $C_{17}H_{29}O_6N$ C 60,5 — H 6,8 — O 28,5 — N 4,1 — M. G. 337.
 1) Amid d. 3,4-Dioxy-1-[(α -Acetoxyl- γ -Ketoisohexyl)benzol-3,4-Dimethyläther-2-Carbonsäure. Sm. 187° (*M.* 25, 1062 *C.* 1904 [2] 1644).
- $C_{17}H_{23}O_6N_7$ C 48,4 — H 5,5 — O 22,8 — N 23,3 — M. G. 421.
 1) Hydrazid d. Benzoyltetra[Amidoacetyl]amidoessigsäure. Sm. 272 bis 274° (268—269°). HCl (*B.* 37, 1300 *C.* 1904 [1] 1337; *J. pr.* [2] 70, 97 *C.* 1904 [2] 1035).
- $C_{17}H_{24}O_4N_2$ 3) Amylester d. α -Benzoylamidoacetylamidopropionsäure. Sm. 96° (*J. pr.* [2] 70, 117 *C.* 1904 [2] 1036).
- $C_{17}H_{24}O_5N_4$ C 56,0 — H 6,6 — O 22,0 — N 15,4 — M. G. 364.
 1) α -Phenylamidoformylamidoisocapronylamidoacetylamidoessigsäure. Sm. 182—183° (*B.* 36, 2991 *C.* 1903 [2] 1112).
 2) Aethylester d. α -[α -Benzoylamidoacetylamidopropionyl]amidoäthylamidoameisensäure. Sm. 203° (*J. pr.* [2] 70, 126 *C.* 1904 [2] 1037).
- $C_{17}H_{24}O_6N_4$ C 53,7 — H 6,3 — O 25,2 — N 14,7 — M. G. 380.
 1) Diäthylester d. α -Benzoylamidoacetylamidoäthan- $\alpha\beta$ -Di[Amidoameisensäure]. Sm. 214° (*J. pr.* [2] 70, 178 *C.* 1904 [2] 1396).
- $C_{17}H_{24}O_7S$ 1) Cuminyldienmalonäthylesterhydrosulfonsäure. $K + \frac{1}{2}H_2O$ (*B.* 37, 4059 *C.* 1904 [2] 1649).
- $C_{17}H_{24}O_{11}N_2$ C 47,2 — H 5,6 — O 40,7 — N 6,5 — M. G. 432.
 1) Pentaacetat d. Glykoseureid. Sm. 200° (*R.* 22, 59 *C.* 1903 [1] 1080).
- $C_{17}H_{24}NCl$ 2) Chlormethylat d. 4-Methyl-7-Isopropylcarbazolenin. 2 + $PtCl_4$, + $AuCl_3$ (*C.* 1904 [2] 343).
- $C_{17}H_{24}NJ$ 2) Jodmethylat d. 4-Methyl-7-Isopropylcarbazolenin. Sm. 209—210° u. Zers. (*C.* 1904 [2] 342).
- $C_{17}H_{24}N_2S$ 12) isom. s-Phenylcamphylthioharnstoff? Sm. 150—152° (*B.* 37, 160 *C.* 1904 [1] 582).
- $C_{17}H_{25}ON$ 7) Benzoyl-l-Menthylamin. Sm. 156° (*Soc.* 85, 70 *C.* 1904 [1] 375, 808).
 8) Benzoyl-iso-l-Menthylamin. Sm. 121° (*Soc.* 85, 121 *C.* 1904 [1] 808).
 9) Benzoyl-neo-l-Menthylamin. Sm. 128° (*Soc.* 85, 77 *C.* 1904 [1] 375, 808).
 10) Benzoyl-iso-neo-l-Menthylamin. Sm. 104° (*Soc.* 85, 77 *C.* 1904 [1] 375, 808).
- $C_{17}H_{25}ON_3$ α -Phenylamido- β -Bornylharnstoff. Sm. 140° u. Zers. (*Soc.* 85, 1191 *C.* 1904 [2] 1125).
 3) 1-3-Phenylsemicarbazone-4-Isopropyl-1-Methylhexahydrobenzol. Sm. 180—181° (*B.* 37, 3182 *C.* 1904 [2] 991).
- $C_{17}H_{25}O_2N$ 5) 3-Keto-2-[α -Hydroxylamidobenzyl]-4-Isopropyl-1-Methylhexahydrobenzol. Sm. 162° (*B.* 37, 234 *C.* 1904 [1] 725).
 6) Hydroxylaminderivat d. isom. Benzylidenmenthon vom Sm. 47°. Sm. 155° (*C. r.* 134, 1438 *C.* 1902 [2] 280; *C.* 1904 [2] 1044).
 7) Hydroxylaminderivat d. isom. Benzylidenmenthon vom Sm. 51°. Sm. 172° (*C. r.* 134, 1437 *C.* 1902 [2] 280; *C.* 1904 [2] 1044).
 8) Phenylamidoformiat d. 2-Oxymethyl-1,1,2,5-Tetramethyl-R-Pentamethylen. Sm. 45° (*Bl.* [3] 31, 750 *C.* 1904 [2] 303).
- $C_{17}H_{25}O_3N$ 8) Phenylmonamid d. cis- $\beta\zeta$ -Dimethylheptan- $\gamma\delta$ -Dicarbonsäure. Sm. 149—150° (*Am.* 30, 238 *C.* 1903 [2] 934).
- $C_{17}H_{25}O_4N_3$ C 60,9 — H 7,5 — O 19,1 — N 12,5 — M. G. 335.
 1) α -[α -Amidoisocapronyl]amidoacetylamido- β -Phenylpropionsäure. Sm. 225—228° (*B.* 37, 3314 *C.* 1904 [2] 1307).
- $C_{17}H_{25}O_4N_5$ C 56,1 — H 6,9 — O 17,6 — N 19,3 — M. G. 363.
 1) Hydrazid d. β -[β -Benzoylamidoacetylamidobutryl]amidobuttersäure. Sm. 194°. HCl (*J. pr.* [2] 70, 221 *C.* 1904 [2] 1461).
- $C_{17}H_{25}O_4Br$ 1) Monoäthylester d. Säure $C_{16}H_{21}O_4Br$ (aus Dibromparasantonsäure). Sm. 93—95° (*C.* 1903 [2] 1447).
- $C_{17}H_{26}O_3N_2$ C 66,7 — H 8,5 — O 15,7 — N 9,1 — M. G. 306.
 1) Acetat d. Oxylyupanin. (HCl, $AuCl_3$) (*Ar.* 242, 428 *C.* 1904 [2] 782).
 2) Aethylester d. α -[α -Amidoisocapronyl]amido- β -Phenylpropionsäure. HCl (*B.* 37, 3310 *C.* 1904 [2] 1306).
- $C_{17}H_{27}ON$ *3) 3-Oxy-2-Phenylamidomethyl-4-Isopropyl-1-Methylhexahydrobenzol (*C.* 1904 [2] 1044).
 4) 3-Oxy-2-[α -Amidobenzyl]-4-Isopropyl-1-Methylhexahydrobenzol. Sd. 202—206°₁₅ (*B.* 37, 235 *C.* 1904 [1] 725).

- $C_{17}H_{27}O_2N$ 4) Benzoat d. α -Dimethylamido- β -Oxy- β -Dimethylhexan. HCl (*C. r.* 138, 767 *C. 1904* [1] 1196).
 $C_{17}H_{27}O_5N_3$ C 66,9 — H 8,8 — O 10,5 — N 13,8 — M. G. 305.
 1) Semicarbazon d. Methylpseudojononhydrat (D.R.P. 150771 *C. 1904* [1] 1307).
 2) Semicarbazon d. isom. Methylpseudojononhydrat. Sm. 193° (D.R.P. 150771 *C. 1904* [1] 1307).
 $C_{17}H_{27}O_3N$ *2) 2-Methoxyphenylester d. Diisobutylamidoessigsäure. Fl. (2HCl, PtCl₄), (HCl, AuCl₃), HJ (*Ar.* 240, 638 *C. 1903* [1] 24).
 $C_{17}H_{23}O_4S_2$ 1) α -Di[Isoamylsulfon]- α -Phenylmethan. Sm. 99–100° (*B. 36*, 298 *C. 1903* [1] 499).
 $C_{17}H_{23}O_5S_3$ 1) α δ -Triäthylsulfon- α -Phenylpentan. Sm. 163° (*B. 37*, 508 *C. 1904* [1] 883).
 $C_{17}H_{23}NJ$ 1) Jodäthylat d. d-2-Propyl-1-Benzylhexahydropyridin (J. d. N-Benzylconin). Sm. 179° (*B. 37*, 3631 *C. 1904* [2] 1510).
 2) isom. Jodäthylat d. d-2-Propyl-1-Benzylhexahydropyridin. Sm. 208° (*B. 37*, 3632 *C. 1904* [2] 1510).
 $C_{17}H_{33}O_2Br$ 2) α -Bromhexadekan- α -Carbonsäure. Sm. 52,5° (*Soc. 85*, 838 *C. 1904* [2] 509).
 $C_{17}H_{35}ON$ 2) α -Oximidoheptadekan. Sm. 89,5° (*Soc. 85*, 834 *C. 1904* [2] 509).
 3) Amid d. Margarinsäure. Sm. 106° (*Soc. 85*, 837 *C. 1904* [2] 509).
 $C_{17}H_{35}O_2N$ *1) Sphingosin. H₂SO₄ (*H.* 43, 29 *C. 1904* [2] 1550).
 $C_{17}H_{40}O_{13}N_4$ C 40,2 — H 7,9 — O 40,9 — N 11,0 — M. G. 508.
 1) Verbindung (aus d. Nitril d. Methylenamidoessigsäure). 4HCl (*B. 36*, 1509 *C. 1903* [1] 1302).

— 17 IV —

- $C_{17}H_{10}O_2N_2Br_2$ 1) Dibrommethylindigo (D.R.P. 149940 *C. 1904* [1] 1046).
 $C_{17}H_{10}O_2N_2S$ 1) Methylenindigosulfonsäure (*C. 1903* [2] 835).
 $C_{17}H_{10}O_8N_2Br_4$ 1) Diacetat d. 2,5,2',5' [oder 5,6,5',6']-Tetrabrom-3,3'-Dinitro-4,4'-Dioxydiphenylmethan. Sm. 167° (*A. 333*, 367 *C. 1904* [2] 1117).
 $C_{17}H_{11}OClS$ 1) Benzoat d. 4-Chlor-1-Merkaptonaphtalin. Sm. 111–112° (*C. r.* 138, 983 *C. 1904* [1] 1413).
 $C_{17}H_{11}OBrS$ 1) Benzoat d. 4-Brom-1-Merkaptonaphtalin. Sm. 120–121° (*C. r.* 138, 983 *C. 1904* [1] 1413).
 $C_{17}H_{11}O_2N_2Cl$ 3) 1-[6-Chlor-3-Nitrophenyl]amidonaphtalin. Sm. 176° (*M. 25*, 371 *C. 1904* [2] 322).
 $C_{17}H_{11}O_2N_2Br$ 3) β -Brom- α -[2-Nitrophenyl]- β -[2-Chinolyl]äthen. Sm. 274° (*B. 36*, 1667 *C. 1903* [2] 49).
 4) Brommethylindigo (D.R.P. 149940 *C. 1904* [1] 1046).
 $C_{17}H_{11}O_2N_3Br_2$ 1) Phenylamid d. 3,3'-Dibrom-4-Oxy-1-Naphtylazoameisensäure. Sm. 250° u. Zers. (*A. 334*, 200 *C. 1904* [2] 835).
 $C_{17}H_{11}O_8N_2S$ 1) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-3-Phenyl-5-[3,4-Dioxybenzyliden]tetrahydrothiazol. Sm. 193° (*M. 24*, 511 *C. 1903* [2] 836).
 $C_{17}H_{12}ON_2Br_2$ 4) 2-Oxy-1-[2,6-Dibrom-4-Methylphenylazo]naphtalin. Sm. 141° (*Soc. 83*, 812 *C. 1903* [2] 426).
 $C_{17}H_{12}O_2N_2Br_2$ 2) Nitril d. γ δ -Dibrom- α -[4-Nitrophenyl]- δ -Phenyl- α -Buten- α -Carbonsäure. Sm. 179–180° (*A. 336*, 220 *C. 1904* [2] 1733).
 $C_{17}H_{12}O_2N_3Br$ 1) Phenylamid d. 3-Brom-4-Oxy-1-Naphtylazoameisensäure. Sm. 250° u. Zers. (*A. 334*, 199 *C. 1904* [2] 835).
 $C_{17}H_{12}O_8N_2S$ 1) 3,4-Methylenäther d. 2-Phenylimido-4-Keto-5-[3,4-Dioxybenzyliden]tetrahydrothiazol. Sm. 259–261° (*C. 1903* [1] 1258).
 $C_{17}H_{12}O_9N_2Cl$ 1) 5-Keto-3-Methyl-4-[4-Chlor-2-Nitrobenzyliden]-1-Phenyl-4,5-Dihydropyrazol. Sm. 180° (*B. 37*, 1865 *C. 1904* [1] 1600).
 $C_{17}H_{12}O_4NBr$ 1) Lakton d. γ -Brom- δ -Oxy- δ -Phenyl- α -[4-Nitrophenyl]- α -Buten- α -Carbonsäure. Sm. 169–171° (*B. 37*, 1123 *C. 1904* [1] 1210; *A. 336*, 219 *C. 1904* [2] 1733).
 $C_{17}H_{12}O_4N_3Br$ 1) Aethyl ester d. 4-Brom-2-[α -Cyan-4-Nitrobenzyliden]amido-benzyl-1-Carbonsäure. Sm. 144° (*B. 37*, 1872 *C. 1904* [1] 1601).
 $C_{17}H_{12}O_8N_2Br_2$ 1) Diacetat d. 5,5'-Dibrom-3,3'-Dinitro-4,4'-Dioxydiphenylmethan. Sm. 185° (*A. 333*, 366 *C. 1904* [2] 1117).

- $C_{17}H_{19}ON_2Cl$ 2) 5-Chlor-4-Benzoyl-3-Methyl-1-Phenylpyrazol. Sm. 88°; Sd. 245°₁₆ (B. 36, 524 C. 1903 [1] 641).
- $C_{17}H_{19}O_2NS_2$ 1) Methyläther d. 2-Thiocarbonyl-4-Keto-3-Phenyl-5-[4-Oxybenzyliden]tetrahydrothiazol. Sm. 221° (M. 24, 509 C. 1903 [2] 836).
- $C_{17}H_{19}O_3NBr_4$ 1) Acetat d. N-Acetylphenyl-3,4,5,6-Tetrabrom-2-Oxybenzylamin. Sm. 161–162° (A. 332, 180 C. 1904 [2] 209).
- $C_{17}H_{19}O_3NS_2$ 1) 5-Methyläther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Phenyltetrahydrothiazol. Sm. 193° (M. 25, 163 C. 1904 [1] 894).
- $C_{17}H_{19}O_4NBr_2$ 1) γ - δ -Dibrom- δ -Phenyl- α -[4-Nitrophenyl]- α -Buten- α -Carbonsäure. Sm. 207–209° (B. 37, 1124 C. 1904 [1] 1210; A. 336, 218 C. 1904 [2] 1732).
- $C_{17}H_{19}O_6NS$ 2) 1-Phenylamidonaphtalin-1²-Carbonsäure-4-Sulfonsäure. Na (D.R.P. 146102 C. 1903 [2] 1152).
3) 1-Phenylamidonaphtalin-1²-Carbonsäure-5-Sulfonsäure. Na (D.R.P. 146102 C. 1903 [2] 1152).
4) 1-Phenylamidonaphtalin-1²-Carbonsäure-7-Sulfonsäure. Na (D.R.P. 146102 C. 1903 [2] 1152).
5) 2-Phenylamidonaphtalin-2²-Carbonsäure-5-Sulfonsäure (D.R.P. 146102 C. 1903 [2] 1152).
6) 2-Phenylamidonaphtalin-2²-Carbonsäure-6-Sulfonsäure. Na (D.R.P. 146102 C. 1903 [2] 1152).
- $C_{17}H_{14}ONCl$ 2) Äthyläther d. 1-Chlor-4-Oxy-3-Phenylisochinolin. Sm. 82–83° (B. 37, 1691 C. 1904 [1] 1524).
3) Phenacylchlorid d. Chinolin + H₂O. Sm. 193–197° (wasserfrei). 2 + PtCl₄, + AuCl₃ (Ar. 240, 692 Anm. C. 1903 [1] 402).
4) Phenacylchlorid d. Isochinolin + 2H₂O. + HgCl₂, 2 + PtCl₄, + AuCl₃ (Ar. 240, 701 Anm. C. 1903 [1] 403).
- $C_{17}H_{14}ONBr$ *2) Phenacylbromid d. Chinolin + H₂O. Sm. 117–118° (169° wasserfrei) (Ar. 240, 692 C. 1903 [1] 402).
*3) Phenacylbromid d. Isochinolin + $\frac{1}{2}$ H₂O. Sm. 206° wasserfrei (Ar. 240, 701 C. 1903 [1] 403).
- $C_{17}H_{14}ON_2S$ 1) Benzozat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sm. 93° (B. 37, 2774 C. 1904 [2] 711).
- $C_{17}H_{14}ON_3Cl$ 3) 5-Keto-3-Methyl-4-[4-Chlor-2-Amidobenzyliden]-1-Phenyl-4,5-Dihydropyrazol. Sm. 265° (B. 37, 1873 C. 1904 [1] 1602).
- $C_{17}H_{14}O_6N_2S$ 1) 6-[3-Amidobenzoyl]amido-1-Oxynaphtalin-3-Sulfonsäure (D.R.P. 151017 C. 1904 [1] 1381).
- $C_{17}H_{14}O_6N_3Br$ 1) Acetat d. α -Acetyl- α -Phenyl- β -[5-Brom-3-Nitro-2-Oxybenzyliden]hydrazin. Sm. 203–204° (B. 37, 3936 C. 1904 [2] 1596).
- $C_{17}H_{16}ON_2Cl$ 1) Oxim d. Chinolinphenacylchlorid. HCl + $\frac{1}{2}$ H₂O (Ar. 240, 697 C. 1903 [1] 402).
2) Oxim d. Isochinolinphenacylchlorid + $\frac{1}{2}$ H₂O. Sm. 147° (Ar. 240, 704 C. 1903 [1] 403).
3) Phenylamid d. Chlorchinoliniumessigsäure + H₂O. 2 + PtCl₄, + AuCl₃ (Ar. 241, 126 C. 1903 [1] 1024).
4) Phenylamid d. Chlorisochinoliniumessigsäure. Sm. 202–206°. + HgCl₂, 2 + PtCl₄, + AuCl₃ (Ar. 240, 706 C. 1903 [1] 403; Ar. 241, 127 C. 1903 [1] 1024).
- $C_{17}H_{16}ON_2Br$ 1) Oxim d. Chinolinphenacylbromid. Sm. 207° (Ar. 240, 693 C. 1903 [1] 402).
2) Oxim d. Isochinolinphenacylbromid. Sm. 195–205° (Ar. 240, 701 C. 1903 [1] 403).
3) Phenylamid d. Bromchinoliniumessigsäure. Sm. 225–227° (Ar. 241, 126 C. 1903 [1] 1023).
4) Phenylamid d. Bromisochinoliniumessigsäure. Sm. 216–218° (Ar. 241, 127 C. 1903 [1] 1024).
- $C_{17}H_{16}OClBr_2$ 1) ϵ -Chlor- α - β -Dibrom- γ -Keto- α - ϵ -Diphenylbutan. Sm. 128° (B. 36, 2376 C. 1903 [2] 495).
- $C_{17}H_{16}O_2NBr_2$ 1) Acetat d. N-Acetylphenyl-3,5-Dibrom-2-Oxybenzylamin (A. 332, 178 C. 1904 [2] 209).

- $C_{17}H_{15}O_2N_2Cl$ 1) α -Acetylimido- α -[Acetyl-4-Chlorphenyl]amido- α -Phenylmethan. Sm. 170° (*J. pr.* [2] 67, 456 *C.* 1903 [1] 1421).
- $C_{17}H_{15}O_3NS$ 9) 2-[2-Methylphenyl]amidonaphtalin-6-Sulfonsäure. Na, Ca, Ba (*C.* 1904 [1] 1013).
- 10) 2-[4-Methylphenyl]amidonaphtalin-6-Sulfonsäure (*C.* 1904 [1] 1013).
- 11) 2-[4-Methylphenyl]amidonaphtalin-8-Sulfonsäure. Na (*C.* 1904 [1] 1013).
- $C_{17}H_{15}O_3N_2Br$ 1) Benzyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydrochinolin. Sm. 120° (*J. pr.* [2] 45, 189). — IV, 266.
- 2) Acetat d. α -Acetyl- α -Phenyl- β -[5-Brom-2-Oxybenzyliden]-hydrazin. Sm. 136–137° (*B.* 37, 3934 *C.* 1904 [2] 1596).
- $C_{17}H_{15}O_4NBr_2$ 1) Methylester d. N-Acetyl-3-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 117–119° (*A.* 332, 196 *C.* 1904 [2] 210).
- $C_{17}H_{15}O_4NS$ 4) 6-Aethylphenylsulfonamido-1,2-Benzpyron. Sm. 124° (*Soc.* 85, 1238 *C.* 1904 [2] 1124).
- $C_{17}H_{15}O_5N_3S$ 1) 6-[4-Amidophenyl]ureido-1-Oxynaphtalin-3-Sulfonsäure (D.R.P. 151017 *C.* 1904 [1] 1382).
- $C_{17}H_{15}O_5NS_2$ 1) 2-[4-Methylphenyl]amidonaphtalin-6,8-Disulfonsäure (*C.* 1904 [1] 1013).
- $C_{17}H_{15}N_2Cl_2Br$ 1) Isochinolin + $\beta\beta$ -Dichlor- γ -Brom- α -Phenylamidopropan. 2 + $PtCl_4$, + $AuCl_3$ (*Ar.* 241, 121 *C.* 1903 [1] 1023).
- $C_{17}H_{16}ONBr$ 2) 8-Brom-5-Benzoylamido-1,2,3,4-Tetrahydronaphtalin. Sm. 202 bis 203° (*Soc.* 85, 746 *C.* 1904 [2] 447).
- $C_{17}H_{16}ON_2S$ 3) 2-[2-Methylphenyl]imido-4-Keto-3-[2-Methylphenyl]tetrahydrothiazol. Sm. 151–152° (*C.* 1903 [1] 1258).
- 4) 1-[Acetyl-2-Methylphenyl]amido-4-Methylbenzthiazol. Sm. 77° (*B.* 36, 3130 *C.* 1903 [2] 1070).
- 5) 1-[Acetyl-4-Methylphenyl]amido-5-Methylbenzthiazol. Sm. 158° (*B.* 36, 3131 *C.* 1903 [2] 1070).
- $C_{17}H_{16}ON_3S$ 1) 1-Phenylthioureido-2-Thiocarbonyl-4-Keto-5-Methyl-3-Phenyltetrahydroimidazol. Sm. 223° u. Zers. (*C.* 1904 [2] 1027).
- $C_{17}H_{16}O_2N_2S$ 5) 5-Benzylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 92° (*A.* 331, 238 *C.* 1904 [1] 1221).
- 6) 2-Acetat d. 2-Merkapto-6-Oxy-1-Phenylbenzimidazol-6-Aethyläther. Sm. 163–164° (*B.* 36, 3849 *C.* 1904 [1] 89).
- $C_{17}H_{16}O_3NCl$ 3) Acetat d. 4-Chlor-1-[Acetyl-2-Oxybenzyl]amidobenzol (*Ar.* 240, 685 *C.* 1903 [1] 395).
- $C_{17}H_{16}O_3NBr$ 4) Acetat d. 4-Brom-1-[Acetyl-2-Oxybenzyl]amidobenzol (*Ar.* 240, 686 *C.* 1903 [1] 395).
- $C_{17}H_{16}O_3ClJ$ 1) 4-Benzozat d. 3,4-Dioxy-1-[α -Chlor- β -Jodpropyl]benzol-3-Methyläther (*C.* 1904 [2] 506).
- 2) 4-Benzozat d. 3,4-Dioxy-1-[β -Chlor- γ -Jodpropyl]benzol-3-Methyläther. Sm. 91° (*C.* 1904 [2] 506).
- $C_{17}H_{16}O_6N_2S_2$ 1) Verbindung (aus Pyridin u. Sulfanilsäure). Na (*J. pr.* [2] 69, 131 *C.* 1904 [1] 816).
- $C_{17}H_{16}N_3ClS$ 1) α -Allylamidothioformylimido- α -[4-Chlorphenyl]amido- α -Phenylmethan. Sm. 169–171° (*J. pr.* [2] 67, 463 *C.* 1903 [1] 1422).
- $C_{17}H_{17}ON_3S$ 1) β -Benzoylamido- α -Isopropylidenamido- α -Phenylthioharnstoff. Sm. 136° (*Am.* 32, 369 *C.* 1904 [2] 1507).
- 2) 1-Phenylamido-2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Phenyltetrahydroimidazol. Sm. 206° (*C.* 1904 [2] 1028).
- $C_{17}H_{17}O_2NBr_2$ *1) 3,6-Dibrom-5-Oxy-2-Acetylphenylamido-1,4-Dimethylbenzol. Sm. 223–225° (*A.* 332, 184 *C.* 1904 [2] 209).
- *2) Acetat d. 3,6-Dibrom-5-Oxy-2-Phenylamidomethyl-1,4-Dimethylbenzol. Sm. 120° (*A.* 332, 183 *C.* 1904 [2] 209).
- $C_{17}H_{17}O_2N_2Br$ 1) 4-Oxybromphenylat d. 2-[4-Oxyphenyl]amido-1,2-Dihydropyridin. Sm. 181° (*J. pr.* [2] 69, 130 *C.* 1904 [1] 815).
- $C_{17}H_{17}O_2N_3Br_2$ 1) Phenylamid d. 3,6-Dibrom-4-Oxy-5-Isopropyl-2-Methylphenylazoameisensäure. Sm. 199–200° (*A.* 334, 197 *C.* 1904 [2] 835).
- $C_{17}H_{17}O_2N_3S$ 2) 3-Phenylsulfonimido-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 211° (*B.* 36, 3286 *C.* 1903 [2] 1190).

- $C_{17}H_{17}O_8NS$ 2) 4-[4-Methylphenyl]merkaptophenylamid d. Oxalsäuremono-äthylester (p-Thiotolylphenyloxamäthan). Sm. 121° (*J. pr.* [2] 68, 268 *C.* 1903 [2] 993).
- $C_{17}H_{18}ONBr_3$ 1) 3,6,3'-Tribrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 99—100° HBr (*A.* 334, 297 *C.* 1904 [2] 985).
2) 2,6,3'-Tribrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 135° HBr (*A.* 334, 323 *C.* 1904 [2] 987).
- $C_{17}H_{18}ON_2S$ * 4) 6-Aethyläther d. 2-Merkapto-6-Oxy-5-Methyl-1-[4-Methylphenyl]benzimidazol. Sm. 205—206° (*B.* 36, 3855 *C.* 1904 [1] 90).
1) 6-Aethyläther d. 2-Merkapto-6-Oxy-4-Methyl-1-[2-Methylphenyl]benzimidazol. Sm. 240° (*B.* 36, 3854 *C.* 1904 [1] 90).
- $C_{17}H_{18}ON_2S_2$ 2) Dimethyläther d. 5-Merkapto-2-Oxy-2-Phenyl-3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 95° (*J. pr.* [2] 67, 260 *C.* 1903 [1] 1266).
3) 5-Methyläther-2-Aethyläther d. 5-Merkapto-2-Oxy-2,3-Diphenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 106° (*J. pr.* [2] 67, 224 *C.* 1903 [1] 1261).
- $C_{17}H_{18}ON_4S_2$ 1) s-Di[4-Methylphenylamidothioformyl] harnstoff. Sm. 172° (*Soc.* 83, 94 *C.* 1903 [1] 230, 447).
- $C_{17}H_{18}O_3N_3Br$ 1) Phenylamid d. 3-Brom-4-Oxy-5-Isopropyl-2-Methylphenylazoameisensäure. Sm. 203° (*A.* 334, 196 *C.* 1904 [2] 835).
- $C_{17}H_{18}O_2N_6Br$ 1) β -Methyl- α -Phenylhydrazid d. α -Oximido- β -[4-Bromphenyl]-hydrazonbuttersäure. Sm. 205° u. Zers. + Essigsäureäthylester (*A.* 328, 74 *C.* 1903 [2] 249).
- $C_{17}H_{18}O_3N_2S$ 2) Inn. Anhydrid d. α -[$\alpha\beta$ -Di(4-Methylphenyl)ureido]äthan- β -Sulfonsäure. Sm. 204° (*M.* 25, 683 *C.* 1904 [2] 1122).
- $C_{17}H_{18}O_6N_4Br_3$ * 1) Di[4-Bromphenylhydrazon] d. l-Arabinose. Sm. 171° u. Zers. (*Soc.* 83, 1285 *C.* 1904 [1] 86).
- $C_{17}H_{18}O_4NBr$ 3) Benzozat d. β -Bromcamphoryloxim. Sm. 134° (*Soc.* 83, 966 *C.* 1903 [1] 1411 *C.* 1903 [2] 666).
4) Benzozat d. π -Brom- α -Isonitrosocampher. Sm. 185° (*Soc.* 83, 967 *C.* 1903 [1] 1611 *C.* 1903 [2] 666).
- $C_{17}H_{18}O_6N_8Br$ 1) Dimethylamidobenzol + 4-Brom-3,5-Dinitrobenzol-1-Carbon-säure. Sm. 56° (*B.* 37, 179 *C.* 1904 [1] 653).
- $C_{17}H_{18}O_{12}N_3Cl$ 1) Triäthylester d. 5-Chlor-2,4,6-Trinitrobenzol-1-Methylcarbon-säure-3-Methyldicarbonsäure. Sm. 147—148° (*Am.* 32, 179 *C.* 1904 [2] 951).
- $C_{17}H_{18}ONBr_2$ * 1) 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 124° HBr, HJ (*A.* 334, 287, 307 *C.* 1904 [2] 984, 986).
2) 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 128° HBr (*A.* 334, 319 *C.* 1904 [2] 987).
3) Methyläther d. Methylphenyl-3,6-Dibrom-4-Oxy-2,5-Dimethylbenzylamin. Sm. 90—91° (*A.* 334, 304 *C.* 1904 [2] 985).
- $C_{17}H_{18}ON_6S_2$ 1) Dimethyläther d. α -Dimerkaptomethylenamido- α -[2-Methylphenyl]- β -Phenylharnstoff. Sm. 98° (*B.* 36, 1370 *C.* 1903 [1] 1342).
2) Dimethyläther d. α -Dimerkaptomethylenamido- α -[3-Methylphenyl]- β -Phenylharnstoff. Sm. 127° (*B.* 36, 1373 *C.* 1903 [1] 1343).
- $C_{17}H_{19}O_2NS$ 3) Äthylester d. 4-Merkapto-2-Methylphenylamidoameisen-4-Methylphenyläthersäure. Sm. 81° (*J. pr.* [2] 68, 285 *C.* 1903 [2] 995).
- $C_{17}H_{19}O_6N_2P$ 1) Trimethylester d. Phosphorsäuredi[Phenylamid]-2,2'-Dicarbon-säure. Sm. 174° (*B.* 36, 1828 *C.* 1903 [2] 201).
- $C_{17}H_{20}ONBr$ 1) 6-Brom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 155—157° (*A.* 334, 335 *C.* 1904 [2] 989).
- $C_{17}H_{20}ONBr_5$ 1) Bromderivat d. Base $C_{17}H_{21}ON$ (aus α -Oxybenzylidencampher). Sm. 173° (*Soc.* 83, 108 *C.* 1903 [1] 233, 458).
- $C_{17}H_{20}ON_2Br_2$ 1) 3,6-Dibrom-6'-Dimethylamido-3'-Amido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 141—142° HBr (*A.* 334, 313 *C.* 1904 [2] 986).
- $C_{17}H_{20}ON_2S$ 2) Äthyläther d. 6-Oxy-3,4'-Dimethyl-s-Diphenylthioharnstoff. Sm. 158° (*B.* 36, 3856 *C.* 1904 [1] 90).
- $C_{17}H_{20}O_2NCl$ 3) Benzozat d. act. Hydrochlorcarvoxim. Sm. 114—115° (*B.* 18, 2222; *A.* 270, 179). — * III, 394.

- $C_{17}H_{20}O_3NP$ 1) Diphenylester d. 1-Piperidylphosphinsäure. Sm. 70° (A. 326, 187 C. 1903 [1] 820). — *IV, 9.
- $C_{17}H_{20}O_5N_2S$ 1) Aethylester d. α -d-[2-Naphtylsulfonamidopropionyl]amidoessigsäure. Sm. 104° (B. 36, 2596 C. 1903 [2] 618).
- $C_{17}H_{20}O_5N_4Br_2$ 1) 4-Bromphenylhydrazid einer Arabinose-p-Bromphenylhydrazonsäure. Sm. 112° u. Zers. (Soc. 83, 1287 C. 1904 [1] 86).
- $C_{17}H_{21}O_2NS$ 7) Phenylamid d. β -Phenylpentan-P-Sulfonsäure. Sm. 60–61° (B. 36, 3690 C. 1903 [2] 1426).
- 8) Phenylamid d. 1-Aethyl-4-Isopropylbenzol-P-Sulfonsäure. Sm. 110° (92–93°) (B. 36, 1641 C. 1903 [2] 27).
- 9) Phenylamid d. 1,3,5-Trimethyl-2-Aethylbenzol-4-Sulfonsäure. Sm. 123–124° (B. 36, 1644 C. 1903 [2] 27).
- $C_{17}H_{22}ON_2S$ 1) Phenylthioharnstoff d. α -Anhydropulegonhydroxylamin. Sm. 134° (B. 37, 957 C. 1904 [1] 1087).
- $C_{17}H_{22}O_2ClBr$ 1) 1-Menthylester d. 2-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 31 bis 32°; Sd. 237–239°₂₂ (Soc. 85, 1264 C. 1904 [2] 1302).
- 2) 1-Menthylester d. 2-Chlor-4-Brombenzol-1-Carbonsäure. Sd. 224 bis 226° (Soc. 85, 1264 C. 1904 [2] 1302).
- 3) 1-Menthylester d. 2-Chlor-5-Brombenzol-1-Carbonsäure. Sm. 34 bis 35°; Sd. 224° (Soc. 85, 1264 C. 1904 [2] 1302).
- 4) 1-Menthylester d. 2-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 144 bis 145° (Soc. 85, 1264 C. 1904 [2] 1302).
- 5) 1-Menthylester d. 3-Chlor-2-Brombenzol-1-Carbonsäure. Sd. 227 bis 229° (Soc. 85, 1264 C. 1904 [2] 1302).
- 6) 1-Menthylester d. 3-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 46 bis 47°; Sd. 225–227° (Soc. 85, 1264 C. 1904 [2] 1302).
- 7) 1-Menthylester d. 3-Chlor-5-Brombenzol-1-Carbonsäure. Sd. 226 bis 228° (Soc. 85, 1264 C. 1904 [2] 1302).
- 8) 1-Menthylester d. 3-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 36,5 bis 37,5° (Soc. 85, 1264 C. 1904 [2] 1302).
- 9) 1-Menthylester d. 4-Chlor-2-Brombenzol-1-Carbonsäure. Sd. 221 bis 223° (Soc. 85, 1264 C. 1904 [2] 1302).
- 10) 1-Menthylester d. 4-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 35 bis 36°; Sd. 223–225° (Soc. 85, 1264 C. 1904 [2] 1302).
- $C_{17}H_{22}O_4N_2S_2$ 4) α -Di[Phenylsulfonamido]pentan. Sm. 119° (B. 37, 3588 C. 1904 [2] 1407).
- $C_{17}H_{22}N_3SP$ 1) Di[Phenylamid] d. 1-Piperidylphosphinsäure. Sm. 199° (A. 326, 215 C. 1903 [1] 822). — *IV, 9.
- $C_{17}H_{20}O_3NBr$ 1) Brommethylester d. Homoatropin. Sm. 180–181° (D.R.P. 145996 C. 1903 [2] 1226).
- $C_{17}H_{23}O_3N_3S$ 1) Aethylester d. 2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Phenyltetrahydroimidazol-1- α -Amidoisobuttersäure. Sm. 84° (C. 1904 [2] 1028).
- $C_{17}H_{20}O_4N_2Br$ 1) α - α -Bromisocapronyl]amidoacetyl-amido- β -Phenylpropionsäure. Sm. 163–164° (B. 37, 3314 C. 1904 [2] 1307).
- $C_{17}H_{24}ON_8P$ 1) Amylamid-Di[Phenylamid] d. Phosphorsäure. Sm. 117° (A. 326, 174 C. 1903 [1] 819).
- $C_{17}H_{24}O_3N_3Cl_3$ 1) Verbindung (aus Butylchloral u. 4-Dimethylamido-3-Keto-1,3-Dimethyl-2-Phenyl-2,3-Dihydropyrazol). Sm. 85–86° (D.R.P. 150799 C. 1904 [1] 1379).
- $C_{17}H_{24}O_4NCl$ 1) Chlormethylester d. Anhydromethylcotarninaceton. 2 + PtCl₄ (B. 37, 213 C. 1904 [1] 590).
- $C_{17}H_{24}O_4NJ$ 1) Jodmethylester d. Anhydromethylcotarninaceton. Sm. 144° (B. 37, 213 C. 1904 [1] 590).
- $C_{17}H_{24}N_5SP$ 1) Di[Phenylhydrazid] d. 1-Piperidylthiophosphinsäure. Sm. 158° (A. 326, 215 C. 1903 [1] 822).
- $C_{17}H_{20}ON_2S$ 1) 3-Oxy-4-[α -Phenylthioureidoisopropyl]-1-Methylhexahydrobenzol. Sm. 132° (B. 37, 2286 C. 1904 [2] 441).
- $C_{17}H_{20}ON_5P$ 1) Amylamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 122° (A. 326, 174 C. 1903 [1] 819).
- $C_{17}H_{20}ON_3P$ 1) Methylphenylamid-1,1'-Dipiperidid d. Phosphorsäure. Sm. 86° (A. 326, 255 C. 1903 [1] 869). — *IV, 10.
- 2) 2-Methylphenylamid-1,1'-Dipiperidid d. Phosphorsäure. Sm. 146° (A. 326, 197 C. 1903 [1] 821). — *IV, 10.

- $C_{17}H_{23}N_3SP$ 1) 4-Methylphenylmonamid-1,1'-Dipiperidid d. Thiophosphorsäure. Sm. 157° (A. 326, 218 C. 1903 [1] 822).
- $C_{17}H_{32}O_2NCl$ 1) Chlormethylat d. Diäthylamidoessigsäurebornylester + H_2O . Zers. bei 130° (Ar. 240, 651 C. 1903 [1] 399).
- $C_{17}H_{32}O_2NJ$ 1) Jodmethylat d. Diäthylamidoessigsäurebornylester. Sm. 194° (Ar. 240, 650 C. 1903 [1] 399).
- $C_{17}H_{34}O_2NCl$ 1) Chlormethylat d. Diäthylamidoessigsäurementhylester + H_2O . Sm. 185° (Ar. 240, 648 C. 1903 [1] 399).
- $C_{17}H_{34}O_2NJ$ 1) Jodmethylat d. Diäthylamidoessigsäurementhylester. Sm. 157° (Ar. 240, 647 C. 1903 [1] 399).
- $C_{17}H_{39}N_3J_2P$ 1) Methylidi[Diisobutylamido]jodphosphoniumjodid. Sm. 132° (A. 326, 168 C. 1903 [1] 762).

— 17 V —

- $C_{17}H_{16}ON_2Br_4S$ 1) Verbindung (aus Acetyl-sym-Di[2-Methylphenyl]thioharnstoff). Sm. 141° u. Zers. (B. 36, 3130 C. 1903 [2] 1070).

C₁₈-Gruppe.

- $C_{18}H_{12}$ *5) Truxen (B. 36, 644 C. 1903 [1] 717; B. 36, 645 C. 1903 [1] 718).
- $C_{18}H_{14}$ *2) 1,4-Diphenylbenzol. Sm. 205° (B. 36, 1410 C. 1903 [1] 1358).
- *3) 5,12-Dihydronaphtacen. Sm. 200—204° (B. 36, 553 C. 1903 [1] 720).
- 7) α -Phenyl- α -(1-Naphtyl)äthen. Sm. 60°; Sd. 350—355° (B. 37, 2757 C. 1904 [2] 707; B. 37, 4167 C. 1904 [2] 1643).
- 8) Kohlenwasserstoff (aus Acetylenmagnesiumbromid u. Benzaldehyd). Sm. 213—214° (C. 1904 [2] 943).
- $C_{18}H_{16}$ 2) 2-Methyl-7-[4-Methylphenyl]naphtalin. Sm. 140—141° (B. 36, 1873 C. 1903 [2] 286; B. 36, 3909 C. 1903 [2] 1438).
- $C_{18}H_{18}$ *1) Reten. Sm. 98° (Ar. 240, 571 C. 1903 [1] 163; B. 36, 4200 C. 1904 [1] 288; Ar. 241, 581 C. 1904 [1] 166; M. 25, 452 C. 1904 [2] 450).
- *4) 1,3,5,7-Tetramethylantracen. Sm. 280° (Soc. 85, 218 C. 1904 [1] 656, 939).
- 8) β -Diphenyl- β -Hexadiën. Sm. 138° (C. r. 135, 1348 C. 1903 [1] 328).
- 9) Kohlenwasserstoff (aus Abiäten). Sm. 86° (Soc. 85, 1248 C. 1904 [2] 107, 1308).
- $C_{18}H_{22}$ 11) 2,4,5,2',4',5'-Hexamethylbiphenyl. Sm. 52°; Sd. 320°₇₃₅ (A. 332, 47 C. 1904 [2] 40).
- 12) 2,4,6,2',4',6'-Hexamethylbiphenyl. Sm. 100,5°; Sd. 296°₇₃₅ (A. 332, 48 C. 1904 [2] 40).
- $C_{18}H_{26}$ 3) Abiäten. Sd. 340—345°₇₆₀ (Soc. 85, 1244 C. 1904 [2] 107, 1308).
- $C_{18}H_{30}$ *1) Dodekahydroreten (Dihydroabiäten). Sd. 330—340° (Soc. 85, 1247 C. 1904 [2] 107, 1308).
- *4) Hexäethylbenzol (J. pr. [2] 68, 227 C. 1903 [2] 1114).
- $C_{18}H_{34}$ 4) Chaulmoogren. Sd. 193—194°₃₀ (Soc. 85, 859 C. 1904 [2] 348, 604).
- $C_{18}H_{38}$ 3) Kohlenwasserstoff (aus Lichesterinsäure). Sd. 190—200° (Ar. 241, 21 C. 1903 [1] 698).

— 18 II —

- $C_{18}H_{16}O_4$ *2) 5,6,11,12-Naphtacendichinon. Sm. 333° (B. 36, 727 C. 1903 [1] 774).
- $C_{18}H_{10}O_3$ *3) Chrysoketoncarbonsäure. Sm. 283° (A. 335, 119 C. 1904 [2] 1132).
- 7) 11-Oxy-5,12-Naphtacenchinon. Sm. 303° (B. 36, 549 C. 1903 [1] 719).
- 8) Anhydrid d. 2-Phenylnaphtalin-1,2'-Dicarbonsäure. Sm. 146° (A. 335, 118 C. 1904 [2] 1132).
- $C_{18}H_{16}O_4$ *3) Isoäthindiphtalid. Sm. 345—347° (300°?) (D.R.P. 138324, 138325 C. 1903 [1] 371; B. 36, 721 C. 1903 [1] 773; B. 36, 2328 C. 1903 [2] 442).
- *4) 2,2'-Bi-1,3-Diketo-2,3-Dihydroinden. Sm. noch nicht bei 320° (B. 35, 3960 C. 1903 [1] 32).
- $C_{18}H_{10}O_5$ 5) 6,11,12-Trioxo-5,12-Diketo-5,12-Dihydroacenaphten (B. 36, 2329 C. 1903 [2] 442).
- 6) 6,8,11-Trioxo-5,12-Naphtacenchinon? (B. 36, 725 C. 1903 [1] 774).

- $C_{18}H_{10}O_6$ 7) β -Trioxynaphtacenchinon. Sm. 300° (B. 36, 727 C. 1903 [1] 774).
 $C_{18}H_{10}O_{11}$ C 53,7 — H 2,5 — O 43,8 — M. G. 402.
- 1) Diphenylketon-2,4,6,3',5'-Pentacarbonsäure. Sm. 350—355° (B. 33, 343). — *II, 1231.
- $C_{18}H_{12}O_2$ 7) 1,2-Dioxychrysen. Sm. 152—154° (D.R.P. 151981 C. 1904 [2] 167).
 $C_{18}H_{12}O_8$ *7) Anhydrid d. $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Sm. 203 bis 204° (B. 37, 2244 C. 1904 [2] 328; B. 37, 2465 C. 1904 [2] 329).
- $C_{18}H_{12}O_4$ *13) Hydriodicumarin. Sm. 262° (B. 35, 4130 C. 1903 [1] 160).
 *18) 2-Phenylnaphtalin-1,2'-Dicarbonsäure. Sm. 199°. Ag_2 (A. 335, 114 C. 1904 [2] 1132).
- 19) $\alpha\gamma$ -Diketo- β -Phthalyl- α -Phenylbutan (Phthalylbenzoylacetone). Sm. 175° (B. 37, 579 C. 1904 [1] 939).
 20) Biscumarin. Sm. noch nicht bei 275° (B. 37, 1385 C. 1904 [1] 1344).
 21) 2-[1-Oxy-2-Naphtoyl]benzol-1-Carbonsäure. Sm. 186°; Sd. 265 bis 270° (B. 36, 554 C. 1903 [1] 720).
 22) 1-[1-Oxy-2-Naphtoyl]benzol-2-Carbonsäure (D.R.P. 134985 C. 1902 [2] 1085; D.R.P. 141025 C. 1903 [1] 1197).
 23) Phenanthroxyleneacetessigsäure. Sm. 188° (M. 17, 344). — *II, 1105.
- $C_{18}H_{12}O_6$ *1) Calycin (C. 1903 [2] 121).
 *6) Verbindung (aus Formononetin) (M. 24, 148 C. 1903 [1] 1033).
 7) Laktone d. 4-Oxy-7-Acetoxy-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Sm. 157,5—158° (B. 36, 1949 C. 1903 [2] 296).
- $C_{18}H_{12}O_8$ *3) Diacetat d. 1,2-Dioxy-9,10-Anthrachinon. Sm. 184° (B. 36, 4021 C. 1904 [1] 184).
 *9) Diacetat d. 2,3-Dioxy-9,10-Naphtochinon. Sm. 206—207° (B. 36, 2939 C. 1903 [2] 886).
 18) Dimethyläther d. Dioxybisbenzaronyl. Sm. 310° (Sec. 83, 1132 C. 1903 [2] 1059).
 19) Diacetat d. 2,7-Dioxy-9,10-Phenanthrenchinon. Sm. 235—236° u. Zers. (B. 36, 3742 C. 1904 [1] 37).
- $C_{18}H_{12}N_2$ *5) 2,7'-Bichinolinyl. Sm. 191—192° (B. 37, 1243 C. 1904 [1] 1362).
 *6) 6,6'-Bichinolinyl. Sm. 181° (A. 332, 80 C. 1904 [2] 43).
- $C_{18}H_{12}N_4$ *5) Naphtofluoavin (B. 36, 4047 C. 1904 [1] 184).
 $C_{18}H_{12}J_2$ 1) Di[3-Jodphenyl]-1,3-Phenylendijodoniumjodid. Zers. bei 140° (B. 37, 1310 C. 1904 [1] 1340).
- $C_{18}H_{13}N_3$ 8) Nitril d. α -Phenylimido- α -[1-Naphtyl]amidoessigsäure. Sm. 121° (D.R.P. 153418 C. 1904 [2] 679).
 9) Nitril d. α -Phenylimido- α -[2-Naphtyl]amidoessigsäure. Sm. 146° (D.R.P. 153418 C. 1904 [2] 679).
- $C_{18}H_{13}Br$ 3) β -Brom- α -Phenyl- α -[1-Naphtyl]äthen. Sm. 71—72°; Sd. 240—260°₁₆ (B. 37, 2757 C. 1904 [2] 707; B. 37, 4167 C. 1904 [2] 1643).
 4) isom. β -Brom- α -Phenyl- α -[1-Naphtyl]äthen. Sm. 54° (B. 37, 4168 C. 1904 [2] 1643).
- $C_{18}H_{14}O$ 5) Äther d. γ -Oxy- γ -Phenylpropin. Sd. 155—160°₁₀ (C. 1904 [2] 943).
 6) 2-Oxy-1,4-Diphenylbenzol. Sm. 194°; Sd. 260° (B. 36, 1408 C. 1903 [1] 1358).
- $C_{18}H_{14}O_2$ 9) Methylester d. 2-Phenylnaphtalin-1-Carbonsäure. Sm. 75° (A. 335, 131 C. 1904 [2] 1134).
 10) Methylester d. 2-Phenylnaphtalin-2'-Carbonsäure. Sm. 63° (A. 335, 131 Ann. C. 1904 [2] 1134).
- $C_{18}H_{14}O_3$ 20) Laktone d. ϵ -Keto- γ -Oxy- $\alpha\delta$ -Diphenyl- α -Penten- ϵ -Carbonsäure. Sm. 179° (A. 333, 267 C. 1904 [2] 1392).
- $C_{18}H_{14}O_4$ *5) $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Sm. 218° u. Zers. + $(CH_2)_2O$, + C_2H_4O , Na_2 + H_2O , 4Ba + 7H₂O, Ag_2 , Piperidinsalz (B. 37, 2241 C. 1904 [2] 328).
 33) $\alpha\gamma$ -Diketo- β -Phthalidyl- α -Phenylbutan. Sm. 119° (B. 37, 586 C. 1904 [1] 940).
 34) $\alpha\gamma$ -Laktone d. γ -Oxy- β -Benzoxyl- α -Phenyl- α -Buten- α -Carbonsäure. Sm. 100° (B. 36, 2256 C. 1903 [2] 437).
 35) Laktone d. α -Oxy- γ -Keto- $\alpha\beta$ -Diphenylbutan- β -Carbonsäure. Sm. 115° (A. 333, 231 C. 1904 [2] 1389).
 36) Diacetat d. $\alpha\beta$ -Di[4-Oxyphenyl]äthin. Sm. 198° (A. 335, 185, 187 C. 1904 [2] 1130).

- $C_{18}H_{14}O_4$ 37) Diacetat d. 1,2-Dioxyanthracen. Sm. 145° (*B.* 36, 4021 *C.* 1904 [1] 168).
- 38) Verbindung (aus Acenaphtenchinon u. Acetessigsäureäthylester). Sm. 150° (*G.* 32 [2] 366 *C.* 1903 [1] 639).
- $C_{18}H_{14}O_6$ 15) 2',2'-Methylenäther-6-Aethyläther d. 6-Oxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 205° (*B.* 33, 329). — *III, 566.
- 16) 4-Acetoxy-3-Methoxyphenanthren-9-Carbonsäure. Sm. 244° (*B.* 35, 4414 *C.* 1903 [1] 344).
- 17) 3-Acetat d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron-6-Methyläther. Sm. 164—166° (*B.* 37, 777 *C.* 1904 [1] 1156).
- 18) 3-Acetat d. 3,7-Dioxy-2-Phenyl-1,4-Benzpyron-7-Methyläther. Sm. 140° (*B.* 37, 1181 *C.* 1904 [1] 1275).
- $C_{18}H_{14}O_8$ *2) 4-Acetat d. 3,4,6-Trioxyphenanthrenchinon-3,6-Dimethyläther (Acetylthebaolchinon). Sm. 208° (corr.) (*B.* 35, 4410 *C.* 1903 [1] 343).
- 13) Dimethyläther d. Dioxybisketocumaran. Sm. 166° (*Soc.* 83, 1133 *C.* 1903 [2] 1060).
- 14) Acetat d. 1,2,3-Trioxo-9,10-Anthrachinondimethyläther. Sm. 167° (*M.* 23, 1016 *C.* 1903 [1] 291).
- $C_{18}H_{14}N_2$ *3) 4-Phenylazobenzol. Sm. 151° (*C.* 1904 [1] 1491).
- *7) Nitril d. α -[1-Naphtyl]amido- α -Phenyllessigsäure. Sm. 106° (*D.R.P.* 144536 *C.* 1903 [2] 779; *B.* 37, 4080 *C.* 1904 [2] 1722).
- $C_{18}H_{16}N$ 9) 2-Phenyl-6-[4-Methylphenyl]pyridin. Sm. 89°. (2HCl, PtCl₄ + 2H₂O), (HCl, AuCl₃), Pikrat (*B.* 36, 847 *C.* 1903 [1] 975).
- $C_{18}H_{16}N_8$ 12) Diphenyldiazoamidobenzol. Sm. 47°. HCl (*C. r.* 138, 1104 *C.* 1904 [1] 1595).
- $C_{18}H_{16}P$ *1) Triphenylphosphin. Sm. 79° (*C. r.* 139, 675 *C.* 1904 [2] 1638).
- $C_{18}H_{18}O$ *1) 1-Keto-3,5-Diphenyl-1,2,3,4-Tetrahydrobenzol. Sm. 82—83° (*B.* 36, 2133 *C.* 1903 [2] 366).
- 5) ϵ -Keto- α -Phenyl- ϵ -[4-Methylphenyl]- $\alpha\gamma$ -Pentadien. Sm. 89° (*B.* 36, 846 *C.* 1903 [1] 975).
- 6) ϵ -Keto- ϵ -Phenyl- α -[4-Methylphenyl]- $\alpha\gamma$ -Pentadien. Sm. 100° (*B.* 36, 851 *C.* 1903 [1] 975).
- $C_{18}H_{18}O_2$ *4) Retenchinon (*B.* 36, 4202 Anm. *C.* 1904 [1] 289).
- *10) 1-Oxy-3-Keto-4-Methyl-1,5-Diphenyl-2,3-Dihydro-R-Penten. Sm. 118° (133,5°) (*Soc.* 83, 276 *C.* 1903 [1] 569, 877; *Soc.* 83, 289 *C.* 1903 [1] 569, 877).
- 13) Dimethyläther d. 3,4-Dioxy-P-Aethenylphenanthren. Sm. 80°. Pikrat (*B.* 35, 4391 *C.* 1903 [1] 339).
- 14) Methyläther d. ϵ -Keto- ϵ -Phenyl- α -[4-Oxyphenyl]- $\alpha\gamma$ -Pentadien. Sm. 118° (*B.* 36, 854 *C.* 1903 [1] 976).
- 15) $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Pentadien- ϵ -Carbonsäure. Sm. 190°. + C₆H₆ (Sm. 140°), Ag (*B.* 36, 1407 *C.* 1903 [1] 1358).
- 16) Laktone d. α -Oxy- $\alpha\beta$ -Diphenyl- γ -Methyl- α -Buten- γ -Carbonsäure. Sm. 105—106° (*Soc.* 83, 308 *C.* 1903 [1] 879).
- 17) Methylester d. $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien- α -Carbonsäure. Sm. 82—83° (*J. pr.* [2] 68, 527 *C.* 1904 [1] 451).
- $C_{18}H_{18}O_8$ *2) Methyläther d. Thebenol. Sm. 135° (*B.* 37, 2790 *C.* 1904 [2] 716).
- *7) Aethylester d. Benzylidenbenzoylessigsäure. Sm. 98—99° (*Soc.* 83, 720 *C.* 1903 [2] 54; *G.* 33 [2] 146 *C.* 1903 [2] 1270).
- 16) Anhydrid d. cis- $\alpha\delta$ -Diphenylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 104° (*B.* 37, 2666 *C.* 1904 [2] 524).
- 17) Anhydrid d. trans- $\alpha\delta$ -Diphenylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 155° (*B.* 37, 2667 *C.* 1904 [2] 524).
- $C_{18}H_{18}O_4$ *2) 7-Oxy-4-Methylen-5-Methyl-2-[4,6-Dioxy-2-Methylphenyl]-1,4-Benzpyran (Orcacetin) (*B.* 36, 733 *C.* 1903 [1] 840).
- *18) β -Isoatropasäure (β -Isococasäure). + C₆H₆ (*J. pr.* [2] 66, 420 *C.* 1903 [1] 528).
- *20) α -Truxillsäure (Cocasäure). Sm. 266—267° (*J. pr.* [2] 66, 419 *C.* 1903 [1] 528).
- *32) Diacetat d. $\alpha\beta$ -Di[4-Oxyphenyl]äthen. Sm. 213° (*A.* 335, 189 *C.* 1904 [2] 1131).
- *44) Diacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenyläthen. Sm. 118° (*Am.* 29, 607 *C.* 1903 [2] 198).

- C₁₈H₁₈O₄** 47) δ -Keto- β - γ -Diphenylpentan- β -Oxyd- α -Carbonsäure. Sm. 131—132° u. Zers. Ag (Soc. 83, 291 C. 1903 [1] 877).
 48) β -Diphenyl- α -Buten- α - γ -Dicarbonsäure (Soc. 75, 250). — *II, 1101.
 49) α - γ -Diketo- β -Phtalidyl- α -Phenylbutan- β^2 -Carbonsäure. Sm. 136° (B. 37, 587 C. 1904 [1] 940).
 50) Dibenzylester d. Fumarsäure. Sm. 64°; Sd. 239°₁₄ (B. 35, 4089 C. 1903 [1] 75).
 51) Dibenzylester d. Maleinsäure. Sd. 241°₁₄ (B. 35, 4090 C. 1903 [1] 75).
 52) γ -Acetat d. α - γ -Dioxy- δ -Keto- α -Diphenyl- α -Buten. Sm. 98° (B. 36, 2419 C. 1903 [2] 501).
 53) Diacetat d. Verbindung C₁₄H₁₂O₂ (A. 325, 28 C. 1903 [1] 460).
- C₁₈H₁₈O₅** *19) Ononetin (M. 25, 566 C. 1904 [2] 907).
 21) 3,4,6-Trioxypheanthrentrimethyläther-9-Carbonsäure. Sm. 203° (B. 35, 4406 C. 1903 [1] 342).
 22) P-Trioxypheanthrencarbontrimethyläthersäure. Sm. 219—221° (B. 37, 2790 C. 1904 [2] 716).
 23) Aethylester d. 4,7-Dioxy-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Pikrat (B. 36, 1950 C. 1903 [2] 296).
 24) Diacetat d. α -Keto- α - β -Di[4-Oxyphenyl]äthan. Sm. 125° (A. 325, 76 C. 1903 [1] 463).
- C₁₈H₁₆O₆** 13) 2',2',6'-Trimethyläther d. 3,6-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 189—190° (B. 37, 780 C. 1904 [1] 1156).
 14) 2',5,7-Trimethyläther d. 3,5,7-Trioxo-2-[4-Oxyphenyl]-1,4-Benzpyron + H₂O. Sm. 151—152° (wasserfrei) (B. 37, 2098 C. 1904 [2] 121).
 15) 2',7,8-Trimethyläther d. 3,7,8-Trioxo-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 212—214° (B. 37, 2630 C. 1904 [2] 539).
 16) 2',7,8-Trimethyläther d. 3,7,8-Trioxo-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 188—189° (B. 37, 2633 C. 1904 [2] 540).
 17) bim. o-Cumarsäure. Sm. noch nicht bei 275° (B. 37, 1384 C. 1904 [1] 1343).
- C₁₈H₁₆O₇** *2) d-Usninsäure. Sm. 191,4° (C. 1903 [2] 121; A. 325, 341 C. 1903 [1] 722).
 *4) Usnolsäure. Sm. 206—210° (J. pr. [2] 68, 7 C. 1903 [2] 510).
 *6) l-Usninsäure. Sm. 191,4° (A. 325, 341 C. 1903 [1] 722).
 *7) i-Usninsäure (A. 325, 339 C. 1903 [1] 722).
 9) Trimethyläther d. Quercetin. Sm. 154° (Ar. 242, 241 C. 1904 [1] 1652).
- C₁₈H₁₆O₈** *2) Tetramethyläther d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinon. Sm. 235—237° (C. 1904 [2] 709).
- C₁₈H₁₆N₂** *7) 4-Phenyl-s-Diphenylhydrazin. Sm. 122° (C. 1904 [1] 1491).
- C₁₈H₁₈N₄** 5) 3,6-Dimethyl-1,4-Diphenylbipyrazol. Sm. 163° (B. 36, 528 C. 1903 [1] 642).
- C₁₈H₁₆J₂** 1) 4-Aethylphenyl-1-Naphtyljodoniumjodid. Sm. 48° (A. 327, 299 C. 1903 [2] 352).
- C₁₈H₁₈O₂** 22) β -Keto- γ -Diphenylhexan- γ -Oxyd. Sm. 98—99° (Soc. 83, 297 C. 1903 [1] 878).
 23) o-Dioxyreten (D.R.P. 151981 C. 1904 [2] 167).
 24) Phenyläther d. α -Oxy- γ -Keto- α -Phenyl- α -Hexen. Sm. 55°; Sd. 206 bis 209°₁₁ (C. r. 139, 210 C. 1904 [2] 649).
 25) Lakton d. δ -Oxy- γ -Diphenyl- β -Methylbutan- β -Carbonsäure. Sm. 106° (Soc. 83, 311 C. 1903 [1] 880).
 26) Benzoat d. γ -[2-Oxyphenyl]- β -Penten. Sd. 212—213,5°₃₀ (Bl. [3] 29, 354 C. 1903 [1] 1222).
- C₁₈H₁₈O₃** 20) 2-Methoxyphenyläther d. α -Oxy- γ -Keto- α -Phenyl- α -Penten. Sm. 76—77°; Sd. 231°₁₇ (C. r. 139, 210 C. 1904 [2] 649).
 21) δ -Keto- γ -Diphenyl- β -Methylbutan- β -Carbonsäure (α -Desylisobuttersäure). Sm. 218° u. Zers. Ag (Soc. 83, 309 C. 1903 [1] 879).
- C₁₈H₁₈O₄** *11) Dimethylester d. α - β -Diphenyläthan-2,2'-Dicarbonsäure. Sm. 103° (B. 37, 3219 C. 1904 [2] 1120).
 *20) Dibenzylester d. Bernsteinsäure. Sm. 45°; Sd. 238°₁₄ (B. 35, 4078 C. 1903 [1] 74).

- $C_{18}H_{18}O_4$ 39) Tetramethyläther d. $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthin. Sm. 156° (A. 329, 45 C. 1903 [2] 1448).
 40) Ceropten. Sm. 135° (C. 1904 [1] 39).
 41) *r*- α -Oxyphenylessig-eugenoläthersäure. Sm. 101–102° (D.R.P. 82924). — *II, 923.
 42) *r*- α -Oxyphenylessig-isoeugenoläthersäure. Sm. 91–92° (D.R.P. 82924). — *II, 923.
 43) 1-Oxymethylbenzoleugenoläther-4-Carbonsäure. Sm. 141° (D.R.P. 82924). — *II, 927.
 44) 1-Oxymethylbenzolisoeugenoläther-4-Carbonsäure. Sm. 185° (D.R.P. 82924). — *II, 927.
 45) *cis*- $\alpha\delta$ -Diphenylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 203° u. Zers. (C. 1900 [2] 562; B. 37, 2666 C. 1904 [2] 524). — *II, 1098.
 46) *trans*- $\alpha\delta$ -Diphenylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 204° (B. 37, 2667 C. 1904 [2] 524). — *II, 1098.
 47) Dimethylester d. $\alpha\beta$ -Diphenyläthan-4,4'-Dicarbonsäure. Sm. 119° (B. 37, 3216 C. 1904 [2] 1120).
 48) Äthylester d. β -Oxy- β -Phenylakryl-3-Methoxyphenyläthersäure. Sd. 232–234°₁₀ (Soc. 83, 1134 C. 1903 [2] 1060).
 49) Di[2-Methylphenylester] d. Bernsteinsäure. Sd. 238–240° (B. 35, 4079 C. 1903 [1] 74).
 50) Di[3-Methylphenylester] d. Bernsteinsäure. Sm. 60° (B. 35, 4080 C. 1903 [1] 74).
 51) Di[4-Methylphenylester] d. Bernsteinsäure. Sm. 121° (B. 35, 4080 C. 1903 [1] 74).
- $C_{18}H_{18}O_5$ 12) Dimethylenäther d. Di[α -3,4-Dioxyphenyläthyl]äther. Sm. 111° (Bl. [3] 25, 275; G. 34 [1] 372 C. 1904 [2] 214; G. 34 [2] 171 C. 1904 [2] 648, 982).
 13) $\alpha^2, \gamma^3, \gamma^4$ -Trimethyläther d. γ -Keto- α -[2-Oxyphenyl]- γ -[2,3,4-Trioxyphe-nyl]propen. Sm. 105° (B. 37, 2628 C. 1904 [2] 539).
 14) $\alpha^3, \gamma^3, \gamma^4$ -Trimethyläther d. γ -Keto- α -[3-Oxyphenyl]- γ -[2,3,4-Trioxyphe-nyl]propen. Sm. 127–128° (B. 37, 2631 C. 1904 [2] 539).
 15) $\alpha^1, \gamma^2, \gamma^4$ -Trimethyläther d. γ -Keto- γ -[2,4,6-Trioxyphe-nyl]- α -[4-Oxyphenyl]propen. Sm. 113° (B. 37, 792 C. 1904 [1] 1158).
 16) Trimethyläther d. 6-Oxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 175–176° (B. 37, 779 C. 1904 [1] 1156).
 17) Trimethyläther d. 5,7-Dioxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 125° (B. 37, 2097 C. 1904 [2] 121).
 18) Trimethyläther d. 7,8-Dioxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 112° (B. 37, 2629 C. 1904 [2] 539).
 19) Trimethyläther d. 7,8-Dioxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 79° (B. 37, 2632 C. 1904 [2] 539).
 20) Trimethyläther d. Butein. Sm. 156–158° (C. 1904 [2] 451).
 21) Trimethyläther d. Butin. Sm. 119–121° (C. 1904 [2] 451).
- $C_{18}H_{18}O_6$ *11) Di[2-Methoxyphenylester] d. Bernsteinsäure. Sm. 135° (B. 35, 4083 C. 1903 [1] 74).
 16) Tetramethyläther d. $\alpha\beta$ -Diketo- $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthan. Sm. 219–220° (A. 329, 53 C. 1903 [2] 1448).
 17) $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenylbutan- $\alpha\gamma$ -Dicarbonsäure. Ag₂ (Soc. 83, 293 C. 1903 [1] 877).
 18) $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenylbutan-2,2'-Dicarbonsäure (o-Aethylenbenz-hydrylcarbonsäure) (B. 10, 2209; 31, 1579). — II, 2023; *II, 1182.
- $C_{18}H_{18}O_8$ 4) Usnidinsäure + 2H₂O. Sm. 195° u. Zers. (J. pr. [2] 63, 526). — *II, 1205.
- $C_{18}H_{18}N_2$ 9) 1-Diphenylmethyl-3,5-Dimethylpyrazol. Sm. 108–109° (J. pr. [2] 67, 172 C. 1903 [1] 874).
- $C_{18}H_{18}N_6$ *1) 1,4-Di[2,5-Diamidophenyl]-1,4-Azophenylen. Sm. 238–238,5° u. Zers. (B. 37, 1506 C. 1904 [1] 1414).
- $C_{18}H_{20}O$ 6) Benzyläther d. γ -[2-Oxyphenyl]- β -Penten. Sd. 192–193°₁₀ (Bl. [3] 29, 354 C. 1903 [1] 1222).
- $C_{18}H_{20}O_2$ *10) Benzot d. 4-Oxy-1-tert. Amylbenzol. Sm. 60° (A. 327, 220 C. 1903 [1] 1408).
 17) $\alpha\beta$ -Di[4-Oxy-2,5-Dimethylphenyl]äthen. Sm. 320–330° (B. 36, 1892 C. 1903 [2] 291).

- $C_{18}H_{20}O_2$ 18) $\gamma\delta$ -Diphenyl- β -Methylbutan- β -Carbonsäure. Sm. 172°. Ag (Soc. 83, 313 C. 1903 [1] 880).
- $C_{18}H_{20}O_3$ *5) α -Benzoat d. Oxymethylenecampher (C. r. 136, 1223 C. 1903 [2] 116).
11) Methylenäther d. d-3,4-Dioxybenzylidencampher. Sm. 159° (C. r. 128, 1273; 130, 222). — *III, 389.
12) δ -Oxy- $\gamma\delta$ -Diphenyl- β -Methylbutan- β -Carbonsäure (Soc. 83, 312 C. 1903 [1] 880).
- $C_{18}H_{20}O_5$ 13) Aldehyd d. 3,4-Dioxybenzol-3-Isobutyläther-4-Benzyläther-1-Carbonsäure. Sm. 42,5° (D.R.P. 85196). — *III, 75.
- $C_{18}H_{20}O_6$ 5) Tetramethyläther d. α -Keto- $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthan. Sm. 108° (A. 329, 48 C. 1903 [2] 1448).
- $C_{18}H_{20}O_{10}$ 3) Diäthylester d. 2,4,6-Triacetoxylbenzol-1,3-Dicarbonsäure. Sm. 96° (75—76°) (B. 21, 1768; Soc. 85, 167 C. 1904 [1] 163, 722).
4) Pentaacetat d. 2,4,6-Trioxy-3-Dioxymethyl-1-Methylbenzol. Sm. 144—145° (M. 24, 878 C. 1904 [1] 369).
- $C_{18}H_{20}N_2$ 8) 1- $[\alpha$ -Phenylimidobenzyl]hexahydropyridin. Fl. (2HCl, PtCl₄), Pikrat (B. 37, 2684 C. 1904 [2] 521).
- $C_{18}H_{21}N$ 2) 2-Phenyl-6-[4-Methylphenyl]hexahydropyridin. Sm. 41,5°; Sd. 237 bis 239°₄₄. (2HCl, PtCl₄ + 2H₂O), (HCl, AuCl₃), HBr, HJ, H₂SO₄, Pikrat (B. 36, 848 C. 1903 [1] 975).
3) isom. 2-Phenyl-6-[4-Methylphenyl]hexahydropyridin. Sd. 218 bis 220°₃₀. (2HCl, PtCl₄ + 2H₂O), (HCl, AuCl₃), HBr, Pikrat (B. 36, 849 C. 1903 [1] 975).
- $C_{18}H_{21}J_3$ 1) β -Joddi[4-Propylphenyl]jodoniumjodid. Sm. 38° u. Zers. (A. 327, 316 C. 1903 [2] 354).
2) β -Jod-4,4'-Dimethyl-2,2'-Diäthylidiphenyljodoniumjodid. Sm. 145° u. Zers. (J. pr. [2] 69, 442 C. 1904 [2] 589).
- $C_{18}H_{22}O_2$ *2) 5,5'-Dioxy-1,2,4,1',2',4'-Hexamethyl- β -Biphenyl. Sm. 172,5—173,5° (B. 36, 2038 C. 1903 [2] 360).
*3) Diäthyläther d. 4,4'-Dioxy-3,3'-Dimethylbiphenyl. Sm. 154° (Am. 31, 125 C. 1904 [1] 809).
*5) Diphenyläther d. $\alpha\zeta$ -Dioxyhexan. Sm. 83° (C. r. 136, 97 C. 1903 [1] 455).
- $C_{18}H_{22}O_3$ 15) Methyläther d. i-4-Oxybenzylidencampher. Sm. 99° (C. r. 132, 1574). — *III, 389.
3,4-Methylenäther d. 3-Keto-2-[3,4-Dioxybenzyliden]-4-Isopropyl-1-Methylhexahydrobenzol. Sd. oberh. 220°₁₅ u. Zers. (C. 1904 [2] 1046).
5) d-Bornylester d. Benzolketocarbonsäure. Sm. 78° (P. Ch. S. No. 230). — *III, 338.
- $C_{18}H_{22}O_4$ 15) l-Monolinaleolester d. Benzol-1,2-Dicarbonsäure. Fl. (B. 31, 839). — *III, 346.
- $C_{18}H_{22}O_5$ *4) Aethylester d. isom. ϵ -Acetyl- $\beta\zeta$ -Diketo- δ -Phenylheptan- γ -Carbon-säure. Sm. 123° (B. 36, 2152 C. 1903 [2] 369).
- $C_{18}H_{22}O_8$ 3) Triäthylester d. 6-Acetoxylbenzol-1,3-Dicarbonsäure-4-Methyl-carbonsäure. Sm. 59° (B. 37, 2120 C. 1904 [2] 438).
4) Tetraacetat d. 2,3,5,6-Tetraoxy-1,4-Diäthylbenzol. Sm. 213° (B. 37, 2387 C. 1904 [2] 307).
- $C_{18}H_{22}N_2$ *16) α -Phenylimido- γ -Phenylamido- β -Methylpentan. HCl, 2HCl (A. 329, 215 C. 1903 [2] 1427).
24) 1,4-Anhydrid d. 4-Aethylamido-1-Oxymethylbenzol. Sm. 79—80°. 2HCl (M. 23, 990 C. 1903 [1] 289).
25) 2,5-Dimethylbenzyliden-2,5-Dimethylbenzylhydrazin. Sm. 74—78° (C. 1903 [1] 141).
- $C_{18}H_{22}N_4$ 14) Di[2-Dimethylamidobenzyliden]hydrazin. Sm. 148—149° (M. 25, 373 C. 1904 [2] 322).
- $C_{18}H_{22}J_2$ 2) Di[4-Propylphenyl]jodoniumjodid. Sm. 135—140°. + J₂ (A. 327, 311 C. 1903 [2] 353).
3) 4,4'-Dimethyl-2,2'-Diäthylidiphenyljodoniumjodid (J. pr. [2] 69, 440 C. 1904 [2] 589).
- $C_{18}H_{23}N$ 2) Isobutylidibenzylamin. Sd. 170—173°₁₀ (Soc. 83, 1413 C. 1904 [1] 438).
3) Di[2,5-Dimethylbenzyl]amin. HCl, (2HCl, HgCl₂), (2HCl, PtCl₄), HNO₃, Pikrat (C. 1903 [2] 1441).

- $C_{18}H_{23}N_3$ 4) 4-[4-Methyläthylamidobenzyliden]amido-1-Dimethylamidobenzol. Sm. 216° (*B.* 37, 861 *C.* 1904 [1] 1206).
- $C_{18}H_{24}O_2$ 5) Verbindung (aus Silicotetraphenylamid u. Senfölen). (2HCl, PtCl₄) (*Soc.* 83, 258 *C.* 1903 [1] 572, 875).
- $C_{18}H_{24}O_3$ 7) 1-Menthylester d. Benzolketocarbonsäure. Sm. 73—74° (*Soc.* 85, 1254 *C.* 1904 [2] 1304).
- $C_{18}H_{24}O_4$ 8) α -Dicamphylsäure. Sm. 230°. Ca + 2H₂O, Ag₂ (*Soc.* 83, 862 *C.* 1903 [2] 573).
- $C_{18}H_{24}O_5$ 7) Dioxy- α -Dicamphylsäure. Sm. 255—257° u. Zers. Ag (*Soc.* 83, 864 *C.* 1903 [2] 573).
- $C_{18}H_{24}O_7$ 3) Diäthylester d. 3,5-Diäthoxyphenoxylfumar säure. Sd. 238—240°₁₅ (*Soc.* 83, 1134 *C.* 1903 [2] 1060).
- $C_{18}H_{26}O_2$ 10) Benzoat d. β -Oxy- α -oder- β -Undeken. Sd. 233—235°₅₀ (*Soc.* 83, 149 *C.* 1903 [1] 71, 436).
- $C_{18}H_{26}O_3$ 3) 1-Menthylester d. d- α -Oxyphenylessigsäure. Sm. 99—100° (*Soc.* 85, 1254 *C.* 1904 [2] 1304).
- 4) 1-Menthylester d. l- α -Oxyphenylessigsäure. Sm. 81—82° (*Soc.* 85, 1254 *C.* 1904 [2] 1304).
- 5) 1-Menthylester d. r- α -Oxyphenylessigsäure. Sm. 85—86°; Sd. 225°₅₀ (*Soc.* 85, 383 *C.* 1904 [1] 940, 1419).
- $C_{18}H_{26}O_4$ 7) Diacetat d. $\alpha\gamma$ -Dioxy- α -[4-Isopropylphenyl]- β -Methylpropan. Sd. 182°_{10.5} (*M.* 24, 254 *C.* 1903 [2] 162).
- $C_{18}H_{26}O_{12}$ 9) d-Idithexaacetat. Sm. 121° (*C.* 1904 [2] 1291).
- $C_{18}H_{26}O$ *2) Undekylphenylketon (*C.* 1904 [1] 1259).
- $C_{18}H_{26}O_2$ 8) Acetat d. Verb. C₁₈H₂₆O (aus Caryophyllen u. Formaldehyd). Sd. 185°₁₅ (*C. r.* 138, 1228 *C.* 1904 [2] 106).
- $C_{18}H_{26}O_4$ 2) Säure (aus α -Camphylsäure). Sd. 270—290°₄₅ (*Soc.* 83, 855 *C.* 1903 [2] 572).
- 3) Äthylester d. Isovalerylcamphocarbonsäure. Sd. 174—176°₁₈ (*B.* 35, 4037 *C.* 1903 [1] 82).
- 4) Isamylester d. Acetylcamphocarbonsäure. Sd. 170—171°_{10.5} (*B.* 35, 4036 *C.* 1903 [1] 81).
- $C_{18}H_{26}O_8$ 5) Äthylester d. 6-Keto-4-[α -Acetoxyisopropyl]hexahydrobenzol-2-Acetessigsäure (Acetat d. Oxyterpanonylacetessigsäureäthylester). Sm. 133° (*B.* 37, 1669 *C.* 1904 [1] 1606).
- $C_{18}H_{26}O_{10}$ 3) Barringtonin. Zers. oberh. 200° (*C.* 1903 [2] 841).
- $C_{18}H_{28}N_2$ 3) 1,3-Di[1-Piperidylmethyl]benzol. Fl. 2HCl, (2HCl, PtCl₄), 2 Pikrat (*B.* 36, 1677 *C.* 1903 [2] 29).
- $C_{18}H_{30}O$ 6) Verbindung (aus Asclepias syriaca L.) (*J. pr.* [2] 68, 407 *C.* 1904 [1] 105).
- $C_{18}H_{30}O_8$ 6) Methyläthylakrylat d. Glykol C₁₂H₂₂O₄. Sd. 198—205°₁₁ (*M.* 24, 160 *C.* 1903 [1] 957).
- $C_{18}H_{30}O_4$ C 69,7 — H 9,7 — O 20,6 — M. G. 310.
- 1) Dihydroembelliasäure. Sm. 116—117° (*Ar.* 238, 22). — *II, 1235.
- $C_{18}H_{30}O_5$ *2) α -Lichesterinsäure (*J. pr.* [2] 68, 33 *C.* 1903 [2] 512).
- *4) γ -Lichesterinsäure (*J. pr.* [2] 68, 36 *C.* 1903 [2] 512).
- 6) Proto- α -Lichesterinsäure. Sm. 106—107°. Ba, Ag (*J. pr.* [2] 68, 29 *C.* 1903 [2] 511).
- $C_{18}H_{32}O_2$ *3) Leinölsäure (*C. r.* 137, 69 *C.* 1903 [2] 552).
- 10) Chaulmoograsäure. Sm. 68°; Sd. 247—248°₅₀. NH₄, K, Mg + 2H₂O, Ca, Sr, Ba, Zn, Pb, Mn, Fe, Cu, Ag (*Soc.* 85, 846 *C.* 1904 [2] 348, 603; *Soc.* 85, 851 *C.* 1904 [2] 348, 604).
- 11) Elaeomargarinsäure. Sm. 43—44° (*Soc.* 83, 1042 *C.* 1903 [2] 657).
- 12) Laktone d. Lichesterylsäure. Sm. 41—42° (*Ar.* 241, 8 *C.* 1903 [1] 697).
- 13) l-Bornylester d. Caprylsäure. Sd. 175°₁₅ (*B.* 31, 1775). — *III, 339.
- 14) Verbindung (aus Chaulmoograsamen). Sd. 214—215°₁₈ (*Soc.* 85, 842 *C.* 1904 [2] 604).
- $C_{18}H_{32}O_4$ *1) Stearoxylsäure. Sm. 83—84° (*B.* 36, 2660 *C.* 1903 [2] 826).
- $C_{18}H_{32}O_6$ 7) Triäthylester d. $\beta\zeta$ -Dimethylheptan- $\gamma\gamma\delta$ -Tricarbonsäure. Sd. 188 bis 190°₁₅ (*Am.* 30, 240 *C.* 1903 [2] 935).

- $C_{18}H_{34}O$ *2) α -Keto- β -Methyl- β -Oktadeken. Sd. 184—187°₁₄ (B. 36, 2558 C. 1903 [2] 655).
- $C_{18}H_{34}O_2$ 3) Chaulmoogrylalkohol. Sm. 36° (Soc. 85, 857 C. 1904 [2] 348, 604).
- *2) Elaidinsäure (C. 1903 [1] 319).
- *3) Oelsäure (C. 1903 [1] 319; 1903 [2] 1418).
- *4) Isoölsäure (β -Heptadeken- α -Carbonsäure) (C. 1903 [1] 826).
- *8) Lakton d. γ -Oxyheptadekan- α -Carbonsäure (C. 1903 [1] 826).
- 11) α -Heptadeken- α -Carbonsäure. Sm. 59°. Na, Ca + H₂O, Ba, Ag (G. 34 [2] 83 C. 1904 [2] 694).
- 12) Dihydrochaulmoograsäure. Sm. 71—72°; Sd. 248°₂₀ (Soc. 85, 857 C. 1904 [2] 348, 604).
- 13) Säure (aus Hefefett). Sd. 210—220°₁₂ (H. 38, 10 C. 1903 [1] 1429).
- 14) l-Menthylester d. Caprylsäure. Sd. 175°₁₅ (B. 31, 364). — *III, 334.
- $C_{18}H_{34}O_3$ *9) ι -Ketoheptadekan- α -Carbonsäure. Sm. 74—76°. Na, Ba (C. 1904 [1] 1331).
- 17) γ -Ketoheptadekan- α -Carbonsäure. Sm. 97°. Ca (C. 1903 [1] 826; J. pr. [2] 67, 418 C. 1903 [1] 1405).
- 18) α -Ketoheptadekan- α -Carbonsäure. Sm. 65°. Ca (C. 1903 [1] 825; J. pr. [2] 67, 416 C. 1903 [1] 1404).
- 19) Lichesterylsäure. Sm. 83—84° (Ar. 241, 10 C. 1903 [1] 697).
- 20) Säure (aus Dioxystearinsäure vom Sm. 136,5°). Fl. (J. pr. [2] 67, 369 C. 1903 [1] 1404).
- 21) Äthylester d. ι -Keto- γ -Methyltetradekan- β -Carbonsäure. Sd. 183 bis 184°₁₁ (Bl. [3] 31, 596 C. 1904 [2] 26).
- $C_{18}H_{34}O_4$ 15) isom. Ketooxystearinsäure. Sm. 63—64°. Ag (B. 36, 2658 C. 1903 [2] 826).
- 16) Dioxidyhydrochaulmoograsäure. Sm. 102° (Soc. 85, 859 C. 1904 [2] 349, 604).
- $C_{18}H_{34}O_5$ 4) Diisoamylester d. Homopilomalsäure. Sd. 192°₂₅ (B. 34, 732; 35, 200). — *III, 687.
- $C_{18}H_{36}O$ 4) Alkohol (aus Oelsäure). Sd. 207°₁₃ (C. r. 137, 328 C. 1903 [2] 710).
- $C_{18}H_{36}O_2$ *1) Stearinsäure (B. 36, 1050 C. 1903 [1] 1148).
- *6) Äthylester d. Palmitinsäure. Sd. 122° (B. 36, 4340 C. 1904 [1] 433).
- *9) Oxyd (aus $\alpha\gamma$ -Dioxy- $\beta\beta\epsilon$ -Trimethylhexan). Sd. 244—246° u. Zers. (M. 24, 531 C. 1903 [2] 869).
- 10) λ -Isostearinsäure. Sm. 49,5—50,5°. Na, Ba, Ag (Ar. 241, 16 C. 1903 [1] 698).
- 11) Menthylester d. Margarinsäure. Sm. 29° (Soc. 85, 837 C. 1904 [2] 509).
- $C_{18}H_{36}O_3$ *1) α -Oxystearinsäure. Sm. 84—85° (90—91°) (C. 1903 [1] 825; J. pr. [2] 67, 416 C. 1903 [1] 1404; G. 34 [2] 81 C. 1904 [2] 694).
- *2) ι -Oxyheptadekan- α -Carbonsäure. Sm. 83—85° (C. 1903 [1] 825; J. pr. [2] 67, 415 C. 1903 [1] 1404).
- 7) α -Oxyheptadekan- α -Carbonsäure. Sm. 91—92° (Soc. 85, 830 C. 1904 [2] 509).
- $C_{18}H_{36}O_4$ *3) Dioxystearinsäure (aus Oelsäure). Sm. 136,5° (C. 1903 [1] 319; B. 36, 1051 C. 1903 [1] 1148; Ar. 240, 660 C. 1903 [1] 406; J. pr. [2] 67, 290 C. 1903 [1] 1404; J. pr. [2] 67, 359 C. 1903 [1] 1404; Ar. 242, 22 C. 1904 [1] 734).
- *4) Dioxystearinsäure (aus Elaidinsäure). Sm. 99—100° (C. 1903 [1] 319; J. pr. [2] 67, 296 C. 1903 [1] 1404; J. pr. [2] 67, 362 C. 1903 [1] 1404).
- $C_{18}H_{36}O_5$ *1) Sativinsäure. Sm. 173° (B. 36, 1051 C. 1903 [1] 1148).
- $C_{18}H_{36}O_6$ *1) Linusinsäure (B. 36, 1051 C. 1903 [1] 1148).
- $C_{18}H_{36}O$ *1) α -Oxyoktadekan (C. 1904 [1] 822).
- $C_{18}H_{40}O_{10}$ C 51,9 — H 9,6 — O 38,4 — M. G. 416.
- 1) Verbindung (aus Camphersäure u. Isobuttersäure) (R. 21, 354 C. 1903 [1] 151).



C 59,3 — H 2,2 — O 30,8 — N 7,7 — M. G. 364.

- 1) 6,8-Dinitro-11-Oxy-5,12-Diketo-5,12-Dihydronaphtacen. Sm. 260° (B. 36, 2327 C. 1903 [2] 442).

- $C_{18}H_9O_6N_2$ C 56,8 — H 2,1 — O 33,7 — N 7,4 — M. G. 380.
 1) **p-Dinitro-6,11-Dioxy-5,12-Diketo-5,12-Dihydroacenaphten** (B. 36, 2329 C. 1903 [2] 442).
- $C_{18}H_9O_5N$ C 67,7 — H 2,8 — O 25,1 — N 4,4 — M. G. 319..
 1) **6-Nitro-11-Oxy-5,12-Diketo-5,12-Dihydronaphtacen**. Sm. 274° (B. 36, 2326 C. 1903 [2] 442).
- $C_{18}H_{10}OS$ 1) **Verbindung** (aus Phenanthrenchinon u. Thiophen) (B. 37, 3352 C. 1904 [2] 1058).
- $C_{18}H_{10}O_4Cl_4$ 1) **Diacetat d. $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthin**. Sm. 234° (A. 325, 78 C. 1903 [1] 463).
- $C_{18}H_{10}O_4Cl_6$ *1) **Diacetat d. $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen**. Sm. 182° (A. 325, 81 C. 1903 [1] 464).
 2) **1,3-Dichlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure** (Hexachlor- α -Truxillsäure). Sm. 316° (B. 37, 220 C. 1904 [1] 588).
 3) **isom. 1,3-Dichlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure** (Hexachlor- γ -Truxillsäure). Sm. 285° (B. 37, 224 C. 1904 [1] 588).
- $C_{18}H_{10}O_4Cl_3$ *1) **Diacetat d. $\alpha\alpha\beta\beta$ -Tetrachlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan**. Sm. 176—177° (A. 325, 87 C. 1903 [1] 464).
- $C_{18}H_{10}O_6N_2$ *3) **Dioxy-carbindigo**. Sm. noch nicht bei 300° (B. 37, 1977 C. 1904 [2] 236).
 4) **isom. Indigocarbonsäure** (D.R.P. 73 687). — *II, 948.
- $C_{18}H_{10}O_6Cl_4$ 1) **Diacetat d. $\alpha\beta$ -Diketo- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan**. Sm. 165° (A. 325, 89 C. 1903 [1] 464).
- $C_{18}H_{10}O_6Br_4$ 1) **Diacetat d. $\alpha\beta$ -Diketo- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan**. Sm. 191° (A. 325, 90 C. 1903 [1] 465).
- $C_{18}H_{10}O_6S$ 2) **11-Oxy-5,12-Naphtacenchinon-p-Sulfonsäure** (B. 36, 720 C. 1903 [1] 773).
- $C_{18}H_{10}O_7S$ 1) **6,11-Dioxy-5,12-Diketo-5,12-Dihydronaphtacen-p-Sulfonsäure** (D.R.P. 138325 C. 1903 [1] 371; B. 36, 724 C. 1903 [1] 774).
- $C_{18}H_{10}N_4Cl_2$ 1) **2,10-Dichlorhomofluorindin** (B. 36, 4031 C. 1904 [1] 294).
- $C_{18}H_{11}O_5N$ *3) **Chinophthalon**. Sm. 238—240°. Na, K (B. 37, 3006 C. 1904 [2] 1408).
 *10) **Isochinophthalon** (B. 37, 3009 C. 1904 [2] 1408; B. 37, 3011 C. 1904 [2] 1409).
- $C_{18}H_{11}O_3N$ 5) **6-Amido-11-Oxy-5,12-Diketo-5,12-Dihydronaphtacen** (B. 36, 2327 C. 1903 [2] 442).
- $C_{18}H_{11}O_4N$ C 70,8 — H 3,6 — O 21,0 — N 4,6 — M. G. 305.
 1) **6-Amido-11,p-Dioxy-5,12-Diketo-5,12-Dihydronaphtacen** (B. 36, 2329 C. 1903 [2] 442).
- $C_{18}H_{11}O_4N_3$ 3) **6,6'-Diazoamidocumarin**. Sm. 230—234° (Soc. 85, 1234 C. 1904 [2] 1124).
- $C_{18}H_{11}O_4Cl_5$ 1) **1-Chlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure** (Pentachlor- α -Truxillsäure). Sm. 274°. Ag_2 (B. 37, 222 C. 1904 [1] 588).
- $C_{18}H_{11}O_5N$ 2) **p-Nitro-2,5-Dibenzoylfuran**. Sm. 130—131° (Am. 25, 459). — *III, 523.
- $C_{18}H_{11}O_5N_5$ *1) **2,4-Dinitrophenyläther d. 2',4'-Dinitro-4-Oxydiphenylamin**. Sm. 225° (233°) (B. 37, 1518 C. 1904 [1] 1597; B. 37, 1732 C. 1904 [1] 1521).
- $C_{18}H_{11}N_4Cl$ 2) **2-Chlorhomofluorindin**. HCl (B. 36, 4030 C. 1904 [1] 294).
- $C_{18}H_{12}ON_2$ *12) **1-Benzoyl- β -Naphtimidazol**. Sm. 126° (B. 37, 3116 C. 1904 [2] 1316).
 *14) **β -Chinophthalin** (B. 37, 3021 C. 1904 [2] 1410).
 16) **1-Keto-2-Phenylimido-1,2-Dihydro- β -Naphtindol** (β -Naphtisatin- α -Anilid) (D.R.P. 153418 C. 1904 [2] 679).
- $C_{18}H_{12}OS_3$ 1) **3,5-Dimerkapto-4-Thiocarbonyl-1-Keto-2,6-Diphenyl-1,4-Dihydrobenzol**. Sm. 165°. + $CHCl_3$, + $(C_2H_5)_4O$, + C_6H_6 , $(NH_4)_2Na_2$ + $2C_2H_5O$, K_2 + $12H_2O$, Ba + $10H_2O$ (B. 37, 1602 C. 1904 [1] 1444).
- $C_{18}H_{12}O_2S_2$ 1) **Diphenyläther d. 2,5-Dimerkapto-1,4-Benzochinon**. Sm. 257° (A. 336, 126 C. 1904 [2] 1298).
 2) **Diphenyläther d. 2,6-Dimerkapto-1,4-Benzochinon**. Sm. 203—204° (A. 336, 130 C. 1904 [2] 1298).

- $C_{18}H_{12}O_4N_2$ 11) *p*-Diamido-6,11-Dioxy-5,12-Diketo-5,12-Dihydroacenaphten (*B* 36, 2330 *C*. 1903 [2] 442).
 12) Verbindung (aus Chinolylacetophenon-2-Carbonsäure). Sm. 205° u. Zers. (*B*. 37, 3013 *C*. 1904 [2] 1409).
- $C_{18}H_{12}O_4Cl_4$ 1) Diacetat d. $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen. Sm. 246° (*A*. 325, 50 *C*. 1903 [1] 462).
- $C_{18}H_{12}O_4Cl_6$ 1) Diacetat d. $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 206°? (*A*. 325, 65 *C*. 1903 [1] 463).
- $C_{18}H_{12}O_4Br_4$ 1) Diacetat d. $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthen. Sm. 241° (*A*. 325, 31 *C*. 1903 [1] 460).
- $C_{18}H_{12}O_4Br_6$ 1) Diacetat d. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 216° u. Zers. (*A*. 325, 43 *C*. 1903 [1] 461).
- $C_{18}H_{12}O_5N_2$ 3) 3,5-Dinitro-2-Oxy-1,4-Diphenylbenzol. Sm. 193—194°. K (*B*. 36, 1410 *C*. 1903 [1] 1358).
- $C_{18}H_{12}O_5Br_6$ 1) 4,4'-Diacetat d. 2,3,5,2',3',5'-Hexabrom- α ,4,4'-Trioxydiphenylmethan- α -Methyläther. Sm. 197° (*A*. 330, 78 *C*. 1904 [1] 1148).
- $C_{18}H_{12}O_6N_8$ 3) 4-[2,4,6-Trinitrophenylamido]azobenzol. Sm. 176—177° (*J. pr.* [2] 69, 43 *C*. 1904 [1] 508).
- $C_{18}H_{12}N_3Cl_3$ 1) 2,4,6-Trichlor-1-Diphenylamidodiazobenzol. Sm. 38—39° (*C. r.* 139, 570 *C*. 1904 [2] 1497).
- $C_{18}H_{12}N_3Br_3$ 1) 2,4,6-Tribrom-1-Diphenylamidodiazobenzol. Sm. 48° (*C. r.* 139, 570 *C*. 1904 [2] 1497).
- $C_{18}H_{12}N_8S_2$ 1) Disulfid d. 3-Merkapto-5-Phenyl-1,2,4-Triazin. Sm. 183° (*B*. 36, 4129 *C*. 1904 [1] 295).
- $C_{18}H_{12}Cl_2J_4$ 1) Di[3-Jodphenyl]-1,3-Phenylendijodoniumchlorid. 2 + $PtCl_4$ (*B*. 37, 1310 *C*. 1904 [1] 1340).
- $C_{18}H_{12}Br_2J_4$ 1) Di[3-Jodphenyl]-1,3-Phenylendijodoniumbromid. Sm. 146° (*B*. 37, 1310 *C*. 1904 [1] 1340).
- $C_{18}H_{12}ON_3$ 13) Phenylhydrazon d. 2-Naphtisatin. Sm. 220° (*B*. 36, 1737 *C*. 1903 [2] 119).
- $C_{18}H_{12}OBr$ 2) 5-Brom-2-Oxy-1,4-Diphenylbenzol. Sm. 86° (*B*. 36, 1409 *C*. 1903 [1] 1358).
- $C_{18}H_{12}O_2N$ *5) 2,6-Diphenylpyridin-4-Carbonsäure. Sm. 278—279°. Ag (*Bl.* [3] 29, 407 *C*. 1903 [1] 1362).
 15) Methylenäther d. 2-[3,4-Dioxybenzyliden]amidonaphtalin. Sm. 115°. + C_6H_6O (*B*. 37, 1703 *C*. 1904 [1] 1497).
- $C_{18}H_{12}O_2Br_3$ 1) Dimethyläther d. *p*-Brom-3,4-Dioxy-*p*-Aethenylphenanthren. Sm. 158—159° (*B*. 35, 4392 *C*. 1903 [1] 339).
- $C_{18}H_{12}O_3N$ *6) 2'-Amid d. 2-Phenylaphtalin-1,2'-Dicarbonsäure. Sm. 220° (*A*. 335, 122 *C*. 1904 [2] 1133).
 *7) 1-Amid d. 2-Phenylaphtalin-1,2'-Dicarbonsäure. Sm. 275° (*A*. 335, 122 *C*. 1904 [2] 1133).
 10) Chinolylacetophenon-2-Carbonsäure. Sm. 155° u. Zers. (*B*. 37, 3012 *C*. 1904 [2] 1409; *B*. 37, 3022 *C*. 1904 [2] 1410).
- $C_{18}H_{12}O_4N$ 9) Methylster d. α -Cyan- β -Benzoxyl- β -Phenylakrylsäure. Sm. 83° (*C. r.* 136, 691 *C*. 1903 [1] 920; *Bl.* [3] 31, 335 *C*. 1904 [1] 1135).
C 59,5 — H 3,6 — O 17,5 — N 19,3 — M. G. 363.
- $C_{18}H_{12}O_4N_6$ 1) 4-[2,4-Dinitrophenylamido]azobenzol. Sm. 175,5—176° (*J. pr.* [2] 69, 43 *C*. 1904 [1] 508).
- $C_{18}H_{12}O_4Br$ 2) Diacetat d. 2-Brom-9,10-Dioxyphenanthren. Sm. 178—179° (*B*. 37, 3561 *C*. 1904 [2] 1401).
- $C_{18}H_{12}O_6N$ 5) Lakton d. α -Oxy- γ -Keto- α -Phenyl- β -[2-Nitrophenyl]butan- β -Keto-carbonsäure. Sm. 118° (*A*. 333, 237 *C*. 1904 [2] 1390).
 6) Diacetat d. 2-Nitro-9,10-Dioxyphenanthren. Sm. 258° (*B*. 36, 3732 *C*. 1904 [1] 35).
 7) Diacetat d. 4-Nitro-9,10-Dioxyphenanthren. Sm. 222—223° u. Zers. (*B*. 36, 3736 *C*. 1904 [1] 36).
- $C_{18}H_{12}N_3Cl_2$ 1) 2,4-Dichlor-1-Diphenylamidodiazobenzol. Sm. 35—40° (*C. r.* 139, 570 *C*. 1904 [2] 1497).
- $C_{18}H_{12}N_3Br_2$ 1) 2,4-Dibrom-1-Diphenylamidodiazobenzol. Sm. 80° (*C. r.* 139, 570 *C*. 1904 [2] 1497).
- $C_{18}H_{12}N_3J_2$ 1) 2,4-Dijod-1-Diphenylamidodiazobenzol. Sm. 70° (*C. r.* 139, 571 *C*. 1904 [2] 1497).

- $C_{18}H_{14}ON_4$ *2) 4-Oxy-1,3-Di[Phenylazo]benzol. Sm. 123° (*C. r.* 138, 1278 *C.* 1904 [2] 97).
- $C_{18}H_{14}O_2N_3$ 27) 2-Oxy-1-[2-Acetylphenyl]azonaphtalin. Sm. 198,5—199° (*B.* 36, 1621 *C.* 1903 [2] 36).
- 28) 2,2'-Dimethylindigo (D.R.P. 58276, 63310). — *II, 960.
- $C_{18}H_{14}O_2N_4$ 19) 2-Nitro-1-Diphenylamidodiazobenzol. Fl. (*C. r.* 139, 569 *C.* 1904 [2] 1497).
- 20) 3-Nitro-1-Diphenylamidodiazobenzol. Fl. (*C. r.* 139, 569 *C.* 1904 [2] 1497).
- 21) 4-Nitro-1-Diphenylamidodiazobenzol. Sm. 63° (*C. r.* 139, 569 *C.* 1904 [2] 1497).
- 22) $\alpha\beta$ -Di[4-Keto-3,4-Dihydro-1,3-Benzdiazin-2-]äthan + H_2O . Sm. oberh. 310° (wasserfrei). (2HCl, PtCl₄) (*J. pr.* [2] 69, 23 *C.* 1904 [1] 640).
- $C_{18}H_{14}O_2Br_4$ 1) Bromderivat d. 3,4-Dioxy- β -Aethenylphenanthrendimethyläther. Sm. 145—147° u. Zers. (*B.* 35, 4391 *C.* 1903 [1] 339).
- $C_{18}H_{14}O_2J_4$ 1) Di[3-Jodphenyl]-1,3-Phenylendijodoniumhydroxyd. Salze siehe (*B.* 37, 1310 *C.* 1904 [1] 1340).
- $C_{18}H_{14}O_2S_2$ 1) 2,5-Diphenyläther d. 2,5-Dimerkapto-1,4-Dioxybenzol. Sm. 103° (*A.* 336, 134 *C.* 1904 [2] 1298).
- 2) 2,6-Diphenyläther d. 2,6-Dimerkapto-1,4-Dioxybenzol (*A.* 336, 136 *C.* 1904 [2] 1299).
- 3) Disulfid d. β -Phenylakrylthiolsäure (Zimmtsäuredisulfid). Sm. 139° (*B.* 36, 2272 *C.* 1903 [2] 563).
- $C_{18}H_{14}O_3N_2$ 17) Oxim d. Chinolyacetophenon-2-Carbonsäure. Sm. 145° u. Zers. (*B.* 37, 3012 *C.* 1904 [2] 1409).
- $C_{18}H_{14}O_4N_2$ *1) Dibenzamidodioxytetrol. Sm. 137,5° (*J. pr.* [2] 70, 239 *C.* 1904 [2] 1462).
- 14) $\alpha\gamma$ -Dioximido- β -Phtalyl- α -Phenylbutan. Sm. 63° (*B.* 37, 582 *C.* 1904 [1] 940).
- 15) $\alpha\beta$ -Di[2-Methylenamidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (*A.* 332, 276 *C.* 1904 [2] 701).
- 16) 1-Phenylazo-3,4-Dioxynaphtalin-2-Methylcarbonsäure. Sm. 212° u. Zers. (E. Hoyer, Dissert., Berlin 1901).
- $C_{18}H_{14}O_4N_4$ *3) 4-Amido-4'-[2,4-Dinitrophenyl]amidobiphenyl. Sm. 244—245° (*J. pr.* [2] 68, 262 *C.* 1903 [2] 1064).
- $C_{18}H_{14}O_4Cl_4$ 2) Diacetat d. $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 159° (*A.* 325, 50 *C.* 1903 [1] 462).
- $C_{18}H_{14}O_4Br_2$ *2) 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (Dibrom- α -Truxillsäure). Sm. 296°. Ag₂ (*B.* 37, 219, 224 Anm. *C.* 1904 [1] 588).
- 3) isom. 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (Dibrom- γ -Truxillsäure). Sm. 280° (*B.* 37, 223 *C.* 1904 [1] 588).
- $C_{18}H_{14}O_6Cl_4$ 1) $\alpha\beta$ -Diacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 220° (*A.* 325, 60 *C.* 1903 [1] 462).
- 2) $\alpha\beta$ -Diacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 202° (*A.* 325, 62 *C.* 1903 [1] 462).
- $C_{18}H_{14}O_6Br_4$ 1) $\alpha\beta$ -Diacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 218° (*A.* 325, 38 *C.* 1903 [1] 461).
- 2) $\alpha\beta$ -Diacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan? Sm. 217° (*A.* 325, 40 *C.* 1903 [1] 461).
- $C_{18}H_{14}O_{14}N_4$ C 42,4 — H 2,7 — O 43,9 — N 11,0 — M. G. 510.
- 1) Di[β -Dinitro-2-Methoxyphenylester] d. Bernsteinsäure (*B.* 35, 4083 *C.* 1903 [1] 74).
- $C_{18}H_{14}NJ$ *1) Jodmethylat d. α -Chrysidin. Sm. 262—263° (*B.* 37, 2925 *C.* 1904 [2] 1412).
- *2) Jodmethylat d. β -Chrysidin. Sm. 264° (*B.* 37, 2927 *C.* 1904 [2] 1412).
- $C_{18}H_{14}N_3J_2$ 1) 4-Phenylazodiphenyljodoniumjodid. Sm. 135° (*B.* 37, 1314 *C.* 1904 [1] 1341).
- $C_{18}H_{14}N_3Cl$ 2) 2-Chlor-1-Diphenylamidodiazobenzol. Fl. (*C. r.* 139, 569 *C.* 1904 [2] 1497).
- 3) 3-Chlor-1-Diphenylamidodiazobenzol. Fl. (*C. r.* 139, 569 *C.* 1904 [2] 1497).
- 4) 4-Chlor-1-Diphenylamidodiazobenzol. Sm. 20° (*C. r.* 139, 569 *C.* 1904 [2] 1497).

- $C_{18}H_{14}N_8Br$ 2) 2-Brom-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 570 C. 1904 [2] 1497).
 3) 3-Brom-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 570 C. 1904 [2] 1497).
 4) 4-Brom-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 570 C. 1904 [2] 1497).
- $C_{18}H_{14}N_8J$ 1) 4-Jod-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 571 C. 1904 [2] 1497).
- $C_{18}H_{15}ON$ 19) 1-Phenyl-1,3-Dihydro-4,2- β -Naphthisoxazin. Sm. 214° (G. 33 [1] 29 C. 1903 [1] 926).
 20) 10-Methyl-1,2-Naphtakridol. Sm. 206—207° (B. 37, 2928 C. 1904 [2] 1412).
- $C_{18}H_{15}OP$ 2) Triphenylphosphinoxid. Sm. 156° (C. r. 139, 575 C. 1904 [2] 1638).
- $C_{18}H_{15}O_2N$ 32) Imid d. Buttersäure. Sm. 107° (C. r. 137, 128 C. 1903 [2] 552).
- $C_{18}H_{15}O_2N_5$ 2) 1-[Methyl- α -Cyanäthylamido]-1-[α -Cyan-4-Nitrobenzyliden]amido-benzol. Sm. 142° (B. 36, 759 C. 1903 [1] 962).
- $C_{18}H_{15}O_2Br$ 3) Methyl ester d. 2-Brom- α - β -Diphenyl- $\alpha\gamma$ -Butadien- α -Carbonsäure. Sm. 81—82° (J. pr. [2] 68, 533 C. 1904 [1] 452).
- $C_{18}H_{15}O_3N$ 16) Methylenäther d. Methyl-4-[3,4-Dioxy-cinnamyliden]amidophenylketon. Sm. 158° (B. 37, 1701 C. 1904 [1] 1497).
 17) 4-Acetylamido-1-Benzoyl-2-Methylbenzofuran. Sm. 178—179° (B. 36, 1260 C. 1903 [1] 1183).
 18) 3-Methyl-5-Phenyl-4-Benzylisoxazol-4²-Carbonsäure. Sm. 189 bis 190° (B. 37, 588 C. 1904 [1] 940).
 19) Verbindung + $\frac{1}{2}H_2O$ (aus Thallin u. Phtalsäureanhydrid). Sm. 239° (B. 37, 1963 C. 1904 [2] 44).
- $C_{18}H_{15}O_3N_3$ 7) 4-[3-Nitro-4-Acetylamidobenzyl]isochinolin + 3H₂O. Sm. 144 bis 145° (wasserfrei) (A. 326, 281 C. 1903 [1] 928).
 8) Aethylester d. 4-Phenylazo-5-Phenylisoxazol-3-Carbonsäure. Sm. 99—100° (B. 37, 2205 C. 1904 [2] 323).
 C 61,9 — H 4,3 — O 13,8 — N 20,0 — M. G. 349.
- $C_{18}H_{15}O_3N_5$ 1) 1-Phenylamidoformyl-4-Phenylamidoformylamido-2-Keto-1,2-Dihydro-1,3-Diazin. Sm. 260° (Am. 29, 501 C. 1903 [1] 1311).
- $C_{18}H_{15}O_3Br$ 3) Methyläther d. Bromthebenol. Sm. 148—149° (B. 37, 2791 C. 1904 [2] 716).
- $C_{18}H_{15}O_3B$ *1) Triphenylester d. Borsäure. Sm. 50° (B. 36, 2222 C. 1903 [2] 420).
- $C_{18}H_{15}O_4N$ *5) Benzylimid d. i-Benzoyläpfelsäure. Sm. 100—101° (J. pr. [2] 70, 9 C. 1904 [2] 774).
 *6) Benzylimid d. d-Benzoyläpfelsäure. Sm. 126—127° (J. pr. [2] 70, 11 C. 1904 [2] 774).
 10) Methyl ester d. α -[4-Nitrophenyl]- δ -Phenyl- $\alpha\gamma$ -Butadien- α -Carbonsäure. Sm. 130—131° (A. 336, 216 C. 1904 [2] 1732).
 11) Benzylimid d. 1-Benzoyläpfelsäure. Sm. 126—127° (J. pr. [2] 70, 12 C. 1904 [2] 774).
- $C_{18}H_{15}O_4Cl$ 1) Diacetat d. α -Chlor- $\alpha\beta$ -Di[4-Oxyphenyl]äthen. Sm. 125—126° (A. 335, 183 C. 1904 [2] 1130).
- $C_{18}H_{15}O_4Br$ 4) Diacetat d. α -Brom- $\alpha\beta$ -Di[4-Oxyphenyl]äthen. Sm. 126—127° (A. 335, 182 C. 1904 [2] 1130).
- $C_{18}H_{15}O_5N$ 2) Aethylester d. 3-Nitrobenzylidenbenzoylessigsäure. Sm. 107—108° (Soc. 83, 722 C. 1903 [2] 54).
 C 54,4 — H 3,8 — O 24,2 — N 17,6 — M. G. 397.
- $C_{18}H_{15}O_6N_5$ 1) 4,6-Dinitro-5-Methylnitramido-2-Methylphenyl-2-Naphtylamin. Sm. 131° (J. pr. [2] 67, 526 C. 1903 [2] 239).
- $C_{18}H_{15}O_7N$ 2) α -Phenyl- β -[2-Nitro-3-Acetoxy-4-Methoxyphenyl]akrylsäure. Sm. 201° (B. 35, 4412 C. 1903 [1] 343).
 3) β -[2-Carboxybenzoyl]amido- α -Phenyläthan- $\beta\beta$ -Dicarbonsäure. Sm. 160—165° u. Zers. (C. 1903 [2] 33).
 C 53,9 — H 3,7 — O 31,9 — N 10,5 — M. G. 401.
- $C_{18}H_{15}O_8N_3$ 1) Diphenyläther d. Nitrodioxydichinolnitrosäure. Na₂ (Am. 29, 118 C. 1903 [1] 709).
- $C_{18}H_{16}ON_2$ 23) 4-Phenylamido-4'-Oxydiphenylamin (D. R. P. 150 553 C. 1904 [1] 1467).
 24) 4-[4-Acetylamidobenzyl]isochinolin. Sm. 181—182° (A. 326, 279 C. 1903 [1] 928).

- $C_{18}H_{18}OS$ 1) 5-Thiocarbonyl-2-Keto-1,3-Diphenylhexahydrobenzol. Sm. 136,5° (B. 37, 1609 C. 1904 [1] 1445).
- $C_{18}H_{18}OSi$ *1) Siliciumtriphenyloxydhydrat. Sm. 155° (B. 37, 1140 C. 1904 [1] 1257).
- $C_{18}H_{18}O_2N_2$ 28) $\alpha\beta$ -Di[4-Acetylamidophenyl]äthin. Sm. 270° (A. 325, 73 C. 1903 [1] 463).
- 29) 6-Methyl-1,3-Diphenyl-1,4-Dihydro-1,2-Diazin-5-Carbonsäure. Sm. 185—186° (A. 331, 310 C. 1904 [2] 45).
- 30) Phenylimid d. α -Phenylamido- α -Buten- $\alpha\beta$ -Dicarbonsäure. Sm. 113 bis 114° (B. 37, 2383 C. 1904 [2] 306).
- $C_{18}H_{18}O_2N_4$ 8) Aethylester d. 4-Phenylazo-5-Phenylpyrazol-3-Carbonsäure. Sm. 153° (B. 37, 2208 C. 1904 [2] 323).
- $C_{18}H_{18}O_2N_6$ C 62,1 — H 4,6 — O 9,2 — N 24,1 — M. G. 348.
- 1) 3,6-Di[3-Acetylamidophenyl]-1,2,4,5-Tetrazin. Sm. 295° (B. 35, 3937 C. 1903 [1] 38).
- $C_{18}H_{18}O_2Br_2$ *2) Methylster d. $\gamma\delta$ -Dibrom- $\alpha\delta$ -Diphenyl- α -Buten- α -Carbonsäure. Sm. 118° (J. pr. [2] 68, 527 C. 1904 [1] 452).
- 3) Methylster d. isom. β -Dibrom- $\alpha\beta$ -Diphenyl- α - oder - β -Buten- α -Carbonsäure. Sm. 133—134° (J. pr. [2] 68, 526 C. 1904 [1] 451).
- $C_{18}H_{18}O_2S$ 1) δ -Merkapto- α -Phenyl- $\alpha\gamma$ -Butadien- δ -Carbonsäure. Sm. 164° (M. 23, 970 C. 1903 [1] 284).
- $C_{18}H_{18}O_2S_2$ *1) Diphenyläther d. 2,5-Dimerkapto-1,4-Diketohexahydrobenzol (Thiophenochinon) (A. 336, 117 C. 1904 [2] 1298).
- $C_{18}H_{18}O_3N_2$ 14) 4-Acetylamido-1-[α -Oximidobenzyl]-2-Methylbenzofuran. Sm. 192° (B. 36, 1261 C. 1903 [1] 1183).
- 15) 2,4,6-Triketo-5,5-Dibenzylhexahydro-1,3-Diazin. Sm. 222° (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 347 C. 1904 [2] 1381).
- $C_{18}H_{18}O_3Cl_2$ 1) δ -Acetat d. $\gamma\gamma$ -Dichlor- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 106° (B. 36, 2396 C. 1903 [2] 498).
- $C_{18}H_{18}O_3Br_2$ 3) Aethylester d. $\alpha\beta$ -Dibrom- γ -Keto- $\alpha\gamma$ -Diphenylpropan- β -Carbonsäure. Sm. 110° (G. 33 [2] 147 C. 1903 [2] 1270).
- 4) δ -Acetat d. $\gamma\gamma$ -Dibrom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 124° (B. 36, 2398 C. 1903 [2] 498).
- 5) δ -Acetat d. isom. $\gamma\gamma$ -Dibrom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 103° (B. 36, 2399 C. 1903 [2] 498).
- $C_{18}H_{18}O_4N_2$ *7) Aethylester d. Phenylazobenzoylbrenztraubensäure. Sm. 115 bis 116° (B. 37, 2204 C. 1904 [2] 323).
- 14) Diacetat d. Di[2-Oxybenzyliden]hydrazin. Sm. 190—191° (B. 37, 3185 C. 1904 [2] 991).
- $C_{18}H_{18}O_4Cl_2$ 2) Diacetat d. $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 220° u. Zers. (A. 335, 179 C. 1904 [2] 1130).
- 3) Diacetat d. isom. $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 132° (A. 335, 181 C. 1904 [2] 1130).
- $C_{18}H_{18}O_4Br_2$ 4) Diacetat d. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 215° u. Zers. (A. 335, 176, 178 C. 1904 [2] 1129).
- 5) Diacetat d. isom. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 169 bis 170° (A. 335, 176, 179 C. 1904 [2] 1130).
- $C_{18}H_{18}O_6N_4$ 3) 1-Dimethylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 105—106° (Soc. 83, 1338 C. 1904 [1] 99).
- 4) 1-Aethylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 153,5—154° (Soc. 83, 1337 C. 1904 [1] 99).
- 5) 2-Aethylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 106° (Soc. 83, 1339 C. 1904 [1] 99).
- $C_{18}H_{18}O_6Br_4$ 1) 9-Methyläther d. Tetrabrom-1,3,6,8-Tetraketo-2,4,5,7-Tetramethyloktohydroxanthren. Sm. 155—160° u. Zers. (M. 25, 680 C. 1904 [2] 1145).
- $C_{18}H_{18}O_6N_2$ 5) Biphenyl-3,3'-Dicarbonsäure-4,4'-Di[Amidoessigsäure]. Sm. oberh. 300° (C. 1903 [1] 34).
- $C_{18}H_{18}ClJ$ 1) 4-Aethylphenyl-1-Naphtyljodoniumchlorid. Sm. 168°. 2 + $HgCl_2$, 2 + $PtCl_4$ (A. 327, 299 C. 1903 [2] 352).
- $C_{18}H_{18}BrJ$ 1) 4-Aethylphenyl-1-Naphtyljodoniumbromid. Sm. 156° (A. 327, 299 C. 1903 [2] 352).
- $C_{18}H_{17}ON$ 17) ϵ -Oximido- α -Phenyl- ϵ -[4-Methylphenyl]- $\alpha\gamma$ -Pentadien. Sm. 170° (B. 36, 847 C. 1903 [1] 975).

- C₁₈H₁₇ON** 18) ε -Oximido- ε -Phenyl- α -[4-Methylphenyl]- $\alpha\gamma$ -Pentadiën. Sm. 128 bis 129° (*B.* 36, 851 *C.* 1903 [1] 975).
 19) 4-Methylamido-[2-Oxy-1-Naphtyl]methan. Sm. 142°. HCl (*M.* 23, 998 *C.* 1903 [1] 290).
 20) 4-Methylamidophenyl-[4-Oxy-1-Naphtyl]methan. Sm. 141—142°. HCl, H₂SO₄ (*M.* 23, 996 *C.* 1903 [1] 290).
 21) 10-Acetylamido-9-Aethylanthracen. Sm. 259—260° (*A.* 330, 174 *C.* 1904 [1] 891).
 22) 7-Oxy-2-Propyl-4-Phenylchinolin. Sm. 221° (*B.* 36, 4019 *C.* 1904 [1] 293).
 23) Aethyläther d. 7-Oxy-2-Methyl-4-Phenylchinolin. Sm. 91° (*B.* 36, 2455 *C.* 1903 [2] 670).
- C₁₈H₁₇ON₃** 12) 4-[4-Amidophenyl]amido-1-[4-Oxyphenyl]amidobenzol. Sm. 185° (*D.R.P.* 153994 *C.* 1904 [2] 966).
 13) 3-Benzoylimido-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol (Benzoyliminopyrin). Sm. 176° (*B.* 36, 3285 *C.* 1903 [2] 1190).
 14) Monoacetylderivat d. 2-[β -3-Amidophenyläthenyl]-5-oder-6-Methylbenzimidazol (*C.* 1904 [1] 103).
 15) Verbindung (aus Benzaldehyd u. α -Cyanpropionsäureäthylester). Sm. 198° u. Zers. (*C.* 1903 [2] 713).
 16) isom. Verbindung (aus Benzaldehyd u. α -Cyanpropionsäureäthylester). Sm. 210° u. Zers. (*C.* 1903 [2] 713).
- C₁₈H₁₇OJ** 1) 4-Aethylphenyl-1-Naphtyljodoniumhydrat. Salze siehe (*A.* 327, 299 *C.* 1903 [2] 352).
- C₁₈H₁₇O₂N** 11) 4-Methylamidophenyl-[2,3-Dioxy-1-Naphtyl]methan. Sm. 185 bis 186°. H₂SO₄ (*M.* 23, 1001 *C.* 1903 [1] 290).
 12) 4-Methylamidophenyl-[2,7-Dioxy-1-Naphtyl]methan. Sm. 179—180° (*M.* 23, 1000 *C.* 1903 [1] 290).
 13) Aethyl ester d. α -Cyan- $\alpha\beta$ -Diphenylpropionsäure. Sd. 231—233°₃₃ (*Am.* 32, 130 *C.* 1904 [2] 954).
 14) Acetat d. γ -Oximido- $\alpha\beta$ -Diphenyl- α -Buten. Sm. 92° (*M.* 19, 410; 20, 739; 22, 667). — *III, 185.
 15) Acetat d. syn- α -Oximido- $\alpha\gamma$ -Diphenyl- β -Buten. Sm. 74° (*M.* 25, 436 *C.* 1904 [2] 336).
 16) Nitril d. 1-Oxymethylbenzoleugenoläther-4-Carbonsäure. Sm. 63 bis 64° (*D.R.P.* 82924). — *II, 927.
 17) Nitril d. 1-Oxymethylbenzolisoeugenoläther-4-Carbonsäure. Sm. 97—98° (*D.R.P.* 82924). — *II, 927.
- C₁₈H₁₇O₃N₃** 11) Phenylhydrazon d. 1-Keto-4-Oxy-3-Propionyl-1,2-Dihydroisochinolin. Sm. 212—213° (*B.* 37, 2486 *C.* 1904 [2] 420).
 12) Acetat d. 5-Oxy-1-Phenyl-3-[β -Phenyläthyl]-1,2,4-Triazol. Sm. 109° (*B.* 36, 1102 *C.* 1903 [1] 1140).
 13) Verbindung (aus Benzylidenbenzoylacetone u. Semicarbazid). Zers. bei 230° (*Soc.* 85, 467 *C.* 1904 [1] 1030, 1438).
- C₁₈H₁₇O₈N** 6) Dimethyläther d. 6,7-Dioxy-1-Keto-2-Benzyl-1,2-Dihydroisochinolin. Sm. 167°. Pikrat (*B.* 37, 530 *C.* 1904 [1] 818; *B.* 37, 3814 *C.* 1904 [2] 1575).
 7) α -Cinnamoylamido- β -Phenylpropionsäure. Sm. 198—199° (*B.* 37, 3069 *C.* 1904 [2] 1208).
 8) Aethyl ester d. α -Cyan- β -[2-Aethoxyl-1-Naphtyl]akrylsäure. Sm. 71° (*Bl.* [3] 29, 880 *C.* 1903 [2] 885).
- C₁₈H₁₇O₃N₅** 2) Amid d. 1-[Methyl- α -Carboxyäthylamido]-4-[α -Cyan-4-Nitrobenzyliden]amidobenzol. Sm. 205—210° (*B.* 36, 762 *C.* 1903 [1] 963).
 3) Azid d. α -Benzoylamidoacetylamido- β -Phenylpropionsäure. Zers. bei 70° (*J. pr.* [2] 70, 229 *C.* 1904 [2] 1462).
- C₁₈H₁₇O₈Cl** 1) Aethyl ester d. β -Keto- γ -[4-Chlorphenyl]- α -Phenylpropan- γ -Carbonsäure. Sm. 166—168° (*J. pr.* [2] 67, 392 *C.* 1903 [1] 1357).
- C₁₈H₁₇O₄N** 8) Dimethyläther d. Papaverolin. (2 HCl, PtCl₄), Pikrat (*C.* 1903 [1] 844).
 9) Trimethyläther d. 7,8-Dioxy-2-Keto-3-[4-Oxyphenyl]-1,2-Dihydrochinolin. Sm. 282° (*B.* 35, 4405 *C.* 1903 [1] 342).
- C₁₈H₁₇O₅N** 9) 2-Aethyl ester d. Benzoyl-2-Carboxyphenylamidoessigsäure. Sm. 141—143° (*D.R.P.* 138207 *C.* 1903 [1] 305).
 10) β -Benzylamid d. d- α -Benzoxyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 125° (*B.* 37, 2125 *C.* 1904 [2] 439).

- $C_{15}H_{17}O_6N$ 11) β -Benzylamid d. i - α -Benzoxyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 116° (B. 37, 2126 C. 1904 [2] 439).
- $C_{15}H_{17}O_5N_3$ C 60,8 — H 4,8 — O 22,5 — N 11,8 — M. G. 355.
 1) Acetat d. α -Acetyl- α -Phenyl- β -[5-Nitro-2-Oxy-3-Methylbenzyliden]-hydrazin. Sm. 199–200° (B. 37, 3922 C. 1904 [2] 1594).
 2) Acetat d. α -Acetyl- α -Phenyl- β -[5-Nitro-6-Oxy-3-Methylbenzyliden]-hydrazin. Sm. 130–150° (B. 37, 3926 C. 1904 [2] 1595).
- $C_{15}H_{17}O_8N$ * 1) Corydinsäure + $\frac{1}{8}H_2O$ (Soc. 83, 620 C. 1903 [1] 1364).
 5) 2',2',6'-Trimethyläther d. 3-Oximido-6-Oxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 168° u. Zers. (B. 37, 780 C. 1904 [1] 1156).
 6) 2',5,7-Trimethyläther d. 3-Oximido-5,7-Dioxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 189–190° u. Zers. (B. 37, 2097 C. 1904 [2] 121).
 7) 2',7,8-Trimethyläther d. 3-Oximido-7,8-Dioxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 170° u. Zers. (B. 37, 2629 C. 1904 [2] 539).
 8) 2',7,8-Trimethyläther d. 3-Oximido-7,8-Dioxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 168° u. Zers. (B. 37, 2632 C. 1904 [2] 540).
 9) Aldehyd (aus Bebeerin). Sm. 255° (Ar. 236, 538). — *III, 621.
- $C_{15}H_{17}O_7N$ 13) α -[4-Methoxyphenyl]- β -[2-Nitro-3,4-Dimethoxyphenyl]akrylsäure. Sm. 230–231° (B. 35, 4404 C. 1903 [1] 342).
 14) Säure (aus Bebeerin). Sm. 270° (Ar. 236, 538). — *III, 621.
- $C_{15}H_{17}N_4J$ 2) 2-Jodmethylat d. 3-Methyl-1,4-Diphenylbipyrazol. Sm. 221° (B. 36, 528 C. 1903 [1] 642).
- $C_{15}H_{15}ON_2$ * 14) 7-[4-Dimethylamidophenyl]amido-2-Oxynaphtalin. Sm. 126–127° (J. pr. [2] 69, 242 C. 1904 [1] 1269).
 16) 2-Amido-5-Oxy-3,7,10-Trimethyl-5,10-Dihydroakridin. Sm. 210° (Soc. 85, 532 C. 1904 [1] 1525).
- $C_{15}H_{15}ON_4$ 6) Amid d. 1-[Methyl- α -Carboxyäthylamido]-4-[α -Cyanbenzyliden]-amidobenzol. Sm. 154° (B. 36, 761 C. 1903 [1] 963).
- $C_{15}H_{15}O_2N_4$ 7) Äthyläther d. 5-Keto-4-[4-Oxyphenyl]-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 159° (D.R.P. 153861 C. 1904 [2] 680).
- $C_{15}H_{15}O_2N_5$ C 61,7 — H 5,1 — O 9,1 — N 24,0 — M. G. 350.
 1) 4,5-Di[α -Phenylhydrazonäthyl]-1,2,3,6-Dioxiazin. Sm. 175° (C. 1903 [2] 1433).
- $C_{15}H_{15}O_3N_2$ 16) α -Keto- $\alpha\beta$ -Di[Acetylamidophenyl]äthan. Sm. 272° (A. 325, 75 C. 1903 [1] 463).
 17) 3-Methyläther-4-Äthyläther d. 1-Nitrosamido-2-[3,4-Dioxyphenyl]indol (B. 37, 873 C. 1904 [1] 1154).
 18) Acetat d. 4-Oxy-3-Acetylphenylhydrazonmethyl-1-Methylbenzol. Sm. 149° (B. 35, 4106 C. 1903 [1] 149).
- $C_{15}H_{15}O_8N_4$ 2) Benzylidenhydrazid d. Benzoylamidoacetylamidoessigsäure. Sm. 215–217° (J. pr. [2] 70, 79 C. 1904 [2] 1033).
- $C_{15}H_{15}O_4N_2$ * 9) Diäthylester d. Azobenzol-3,3'-Dicarbonsäure. Sm. 109° (corr.) (A. 326, 341 C. 1903 [1] 1130).
 * 10) Diäthylester d. Azobenzol-4,4'-Dicarbonsäure. Sm. 145,5° (A. 326, 332 C. 1903 [1] 1130).
 17) α -Benzoylamidoacetyl- β -Phenylpropionsäure. Sm. 172°. Ag (J. pr. [2] 70, 226 C. 1904 [2] 1461).
 18) Äthylester d. $\alpha\beta$ -Dibenzoylhydrazidoessigsäure. Sm. 112–113° (J. pr. [2] 70, 277 C. 1904 [2] 1544).
- $C_{15}H_{15}O_4N_4$ * 8) Di[Benzylidenhydrazid] d. d- $\alpha\beta$ -Dioxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 230° u. Zers. (Soc. 83, 1364 C. 1904 [1] 84).
- $C_{15}H_{15}O_4Cl_2$ 1) $\alpha\beta$ -Diäthyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]-äthan. Sm. 183–184° (A. 325, 59 C. 1903 [1] 462).
- $C_{15}H_{15}O_4Br_2$ 1) Tetramethyläther d. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthen. Sm. 208° (A. 329, 47 C. 1903 [2] 1448).
- $C_{15}H_{15}O_4S$ 2) 2,5-Diacetat d. 4-Merkapto-2,5-Dioxy-1-Methylbenzol-4-Benzyläther. Sm. 120–122° (A. 336, 164 C. 1904 [2] 1300).
- $C_{15}H_{15}O_6N_2$ * 1) Diäthylester d. Azoxybenzol-3,3'-Dicarbonsäure. Sm. 78° (A. 326, 342 C. 1903 [1] 1130).

- $C_{15}H_{15}O_5N_2$ *7) Diäthylester d. Azoxybenzol-2, 2'-Dicarbonsäure. Sm. 76—77° (A. 326, 345 C. 1903 [1] 1130).
- 8) Diäthylester d. Azoxybenzol-4, 4'-Dicarbonsäure. Sm. 114,5° (122,5°) (A. 326, 334 C. 1903 [1] 1130; *Am.* 32, 398 C. 1904 [2] 1499).
- $C_{15}H_{15}O_6N_2$ 7) Dicyanmalonbenzoylessigesterlaktam. Sm. 194° (A. 332, 131 C. 1904 [2] 190).
- 8) Äthylester d. $\beta\beta'$ -Di[4-Nitrophenyl]isobuttersäure. Sm. 104,5° (106—107°) (G. 32 [2] 357 C. 1903 [1] 629; B. 37, 1996 C. 1904 [2] 27).
- $C_{15}H_{15}O_7N_2$ C 57,8 — H 4,8 — O 29,9 — N 7,5 — M. G. 374.
- 1) 3-[6-Oxy-3-Methylcarboxyphenylamid] d. 4-Oxybenzol-1-Carbonsäure-3-Amidoessigsäure-1-Methylester. Sm. 219° (A. 325, 333 C. 1903 [1] 771).
- $C_{15}H_{15}O_{10}N_4$ C 48,0 — H 4,0 — O 35,6 — N 12,4 — M. G. 450.
- 1) Diäthyläther d. β -Tetranitro-4, 4'-Dioxy-3, 3'-Dimethylbiphenyl. Sm. 142° (*Am.* 31, 127 C. 1904 [1] 809).
- $C_{15}H_{15}NJ$ 1) Jodäthylat d. 4-Benzylisochinolin. Sm. 188—189° (A. 326, 295 C. 1903 [1] 929).
- $C_{15}H_{15}N_2Cl_2$ 3) 1, 3-Xylylendipyridoniumchlorid. 2 + $PtCl_4$ (B. 36, 1679 C. 1903 [2] 29).
- $C_{15}H_{15}N_2Br_2$ 3) 1, 3-Xylylendipyridoniumbromid. Sm. 264°. + Br_4 (B. 36, 1679 C. 1903 [2] 29).
- $C_{15}H_{15}N_3J$ 2) Verbindung (aus Phenylbenzylidenhydrazin). Sm. 262°. + $3HgCl_2$ + H_2O , + $PtCl_4$, 2 + $PtCl_4$ (G. 33 [2] 55 C. 1903 [2] 1057).
- $C_{15}H_{15}O_2N$ *11) Apocoein. Fl. HCl (B. 36, 1592 C. 1903 [2] 53).
- 23) γ -[3-Oxyphenyl]imido- α -Oxy- α -Phenyl- α -Hexen. Sm. 152° (B. 36, 4019 C. 1904 [1] 293).
- 24) $\beta\delta$ -Diketo- γ -[α -Phenylamidobenzyl]pentan. Sm. 113° (*Soc.* 85, 466 C. 1904 [1] 1080, 1438).
- 25) 3-Methyläther-4-Äthyläther d. 3-Methyl-2-[3, 4-Dioxyphenyl]indol. Sm. 165° (B. 37, 873 C. 1904 [1] 1154).
- 26) Methylapomorphin. + CH_4O (B. 35, 4388 C. 1903 [1] 339).
- $C_{15}H_{15}O_2N_3$ 4) γ -Phenylsemicarbazon- α -[6-Oxy-3-Methylphenyl]- α -Buten + H_2O . Sm. 177° (B. 37, 3186 C. 1904 [2] 991).
- $C_{15}H_{15}O_2Cl_3$ 2) $\beta\beta\beta$ -Trichlor- α -Di[4-Oxy-2, 5-Dimethylphenyl]äthan. Sm. 175 bis 176° (B. 36, 1892 C. 1903 [2] 291).
- $C_{15}H_{15}O_5N$ *4) Thebenin. HCl + $3H_2O$ (B. 36, 3082 C. 1903 [2] 955).
- *13) Morphothebain. Sm. 197° u. Zers. (B. 36, 3083 C. 1903 [2] 955).
- 26) Codeinon. Sm. 185—186°. HCl + H_2O , Pikrat, Pikrolonat (B. 36, 3070 C. 1903 [2] 953).
- 27) Methylester d. α -Phenylamido- γ -Keto- α -Phenylbutan- β -Carbonsäure. Sm. 125° (B. 36, 942 C. 1903 [1] 1018).
- 28) Methylester d. isom. α -Phenylamido- γ -Keto- α -Phenylbutan- β -Carbonsäure. Sm. 86° (B. 36, 942 C. 1903 [1] 1018).
- 29) Amid d. 1-Oxymethylbenzoleugenoläther-4-Carbonsäure. Sm. 178° (D. R. P. 82924). — *II, 927.
- 30) Amid d. 1-Oxymethylbenzolisoeugenoläther-4-Carbonsäure. Sm. 191—192° (D. R. P. 82924). — *II, 927.
- $C_{15}H_{15}O_8N_3$ 3) Methyläther d. α -Oximido- α -[4-Methylbenzoyl]- β -[4-Methylphenyl]oxyhydrazonäthan (E. 16, 333). — *III, 231.
- $C_{15}H_{15}O_3N_5$ 2) Benzylidenhydrazid d. β -Phenylureidoacetylamidoessigsäure. Sm. 243° u. Zers. (*J. pr.* [2] 70, 256 C. 1904 [2] 1464).
- $C_{15}H_{15}O_4N$ *15) Apocorydalin. HCl, HJ (*Ar.* 241, 652 C. 1904 [1] 182).
- 16) 2'-Methyläther-6-Äthyläther d. 4-Oximido-6-Oxy-2-[4-Oxyphenyl]-2, 3-Dihydrobenzopyran. Sm. 190—191° (B. 33, 1484). — *III, 560.
- 17) 4'-Acetat d. 4-[Acetyl-2-Oxybenzyl]amido-1-Oxybenzol-1-Methyläther (*Ar.* 240, 682 C. 1903 [1] 395).
- $C_{15}H_{15}O_4Cl$ 1) Tetramethyläther d. β -Chlor- α -Di[3, 4-Dioxyphenyl]äthen. Sm. 98° (A. 329, 44 C. 1903 [2] 1448).
- $C_{15}H_{15}O_5N$ 10) Anhydrocetrarinresorcin. Sm. 220° u. Zers. HCl (B. 37, 2743 C. 1904 [2] 544).
- 11) α -[4-Methoxyphenyl]- β -[2-Amido-3, 4-Dimethoxyphenyl]akrylsäure. Sm. 176—177° (B. 35, 4405 C. 1903 [1] 342).

- $C_{18}H_{19}O_5N$ 2) 3,4,3',4'-Tetramethyläther d. β -Oximido- α -Keto- α - β -Di[3,4-Dioxyphenyl]äthan. Sm. 149—150° (*A.* 329, 52 *C.* 1903 [2] 1448).
- $C_{18}H_{19}N_5S$ 1) α -Benzylidenamido- β -Allyl- α -Benzylthioharnstoff. Sm. 106—107° (*B.* 37, 2328 *C.* 1904 [2] 313).
- $C_{18}H_{20}ON_2$ 17) α -Äthylimido- α -Benzoyläthylamido- α -Phenylmethan. Sm. 90 bis 91,5° (2HCl, PtCl₄) (*Soc.* 83, 323 *C.* 1903 [1] 581, 876).
- $C_{18}H_{20}O_2N_2$ *42) Methyläther d. Benzoylimido-2,4,5-Trimethylphenylamidooxymethan. Sm. 87—89° (*Ann.* 32, 365 *C.* 1904 [2] 1507).
- 53) Peroxyd d. anti-2,5-Dimethylbenzaldoxim. Sm. 97—98° u. Zers. (*G.* 32 [2] 481 *C.* 1903 [1] 831).
- 54) 1,3-Xylendipyridoniumhydroxyd. 2 Chlorid + PtCl₄, 2 Bromid + Br₂, 2 Pikrat (*B.* 36, 1679 *C.* 1903 [2] 29).
- 55) d-Benzoyllimonen- β -Nitrosoeyanid. Sm. 107° (*C.* 1904 [2] 440; *Soc.* 85, 932 *C.* 1904 [2] 705).
- 56) α -Phenylhydrazon- α -Phenyl- β -Äthylpropan- γ -Carbonsäure. Sm. 136° (*C.* 1904 [1] 1258).
- 57) Methylster d. α -[4-Methylphenyl]imido- α -[Methyl-4-Methylphenyl]amidoessigsäure. Sm. 91—92° (*Soc.* 85, 996 *C.* 1904 [2] 321, 831).
- 58) Äthylester d. 4-Methylphenylimido-4-Methylphenylamidoessigsäure. Sm. 98—100° (2HCl, PtCl₄) (*Soc.* 85, 991 *C.* 1904 [2] 831).
- $C_{18}H_{20}O_2N_4$ *11) α -Di[4-Methylphenylnitrosamido]- α -Buten. Sm. 165° (*A.* 329, 222 *C.* 1903 [2] 1428).
- 17) 1,4,5,8-Tetra[Methylamido]-9,10-Anthrachinon (D. R. P. 144634 *C.* 1903 [2] 750).
- 18) Äthylester d. α -[2-Methylphenyl]azo- α -[2-Methylphenyl]hydrazon-essigsäure. Sm. 99—100° (*Bl.* [3] 31, 85 *C.* 1904 [1] 580).
- $C_{18}H_{20}O_2Br_2$ 3) Di[6-Brom-2,4-Dimethylphenyläther] d. α - β -Dioxyäthan. Sm. 100° (*B.* 36, 2876 *C.* 1903 [2] 834).
- $C_{18}H_{20}O_3N_2$ *23) Diacetylderivat d. 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 101° (*J. pr.* [2] 69, 234 *C.* 1904 [1] 1269).
- *24) Diacetylderivat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 131° (*J. pr.* [2] 69, 164 *C.* 1904 [1] 1268).
- 25) 6-Methyläther-4,5-Methylenäther d. 4,5,6-Trioxo-2-[β -Methylamidoäthyl]-1-Phenylimidomethylbenzol (Cotarninani). Sm. 124° u. Zers. (*B.* 36, 1528 *C.* 1903 [2] 51).
- 26) Codeinonoxim. Sm. 212°. + C₂H₅O (*B.* 36, 3072 *C.* 1903 [2] 953).
- 27) α -[α -Amido- β -Phenylpropionyl]amido- β -Phenylpropionsäure + 2H₂O. Sm. 238° (*B.* 37, 3069 *C.* 1904 [2] 1208).
- 28) Di[Phenylamid] d. α -Oxybutan- α - β -Dicarbonsäure. Sm. 203—204° (*B.* 37, 2382 *C.* 1904 [2] 306).
- 29) s-Dibenzylamid d. d-Äpfelsäure. Sm. 157° (*B.* 37, 2128 *C.* 1904 [2] 439).
- 30) s-Dibenzylamid d. l-Äpfelsäure. Sm. 155,5° (157°) (*Soc.* 83, 1325 *C.* 1904 [1] 82; *B.* 37, 2127 *C.* 1904 [2] 439).
- $C_{18}H_{20}O_5N_4$ 8) α -[α -Benzoylamidoacetylamidoäthyl]- β -Phenylharnstoff. Sm. 216° (*J. pr.* [2] 70, 121 *C.* 1904 [2] 1037).
- 9) Di[Phenylhydrazon]trioxyhexahydrobenzol. Sm. 209° (*Soc.* 85, 628 *C.* 1904 [2] 329).
- 10) Hydrazid d. α -Benzoylamidoacetylamido- β -Phenylpropionsäure. Sm. 183°. HCl (*J. pr.* [2] 70, 227 *C.* 1904 [2] 1461).
- $C_{18}H_{20}O_4N_2$ *12) 2-Methylphenylamid d. d-Weinsäure. Sm. 184—185° (*Soc.* 83, 1357 *C.* 1904 [1] 84).
- *13) 3-Methylphenylamid d. d-Weinsäure. Sm. 184° (*Soc.* 83, 1358 *C.* 1904 [1] 84).
- *14) 4-Methylphenylamid d. d-Weinsäure. Sm. 240° u. Zers. (*Soc.* 83, 1356 *C.* 1904 [1] 84).
- 22) Diäthylester d. s-Diphenylhydrazin-4,4'-Dicarbonsäure. Sm. 118° (*A.* 326, 333 *C.* 1903 [1] 1130).
- 23) Benzylamid d. d-Weinsäure. Sm. 199° (*Soc.* 83, 1362 *C.* 1904 [1] 84).
- $C_{18}H_{20}O_4Cl_2$ 1) Tetramethyläther d. β - β -Dichlor- α -Di[3,4-Dioxyphenyl]äthan. Sm. 122° (*A.* 329, 43 *C.* 1903 [2] 1448).
- $C_{18}H_{20}O_5N_2$ C 62,8 — H 5,8 — O 23,3 — N 8,1 — M. G. 344.
- 1) Nitrocodein (Methyläther d. Nitromorphin) (*A.* 77, 341; *H.* 38, 162). — III, 903; *III, 672.

- $C_{18}H_{20}O_8N_2$ 3) Di[Phenylamidoformiat] d. Dulcid. Sm. 233° (*C. r.* 139, 638 *C.* 1904 [2] 1536).
- $C_{18}H_{20}O_8N_2$ *2) Tetramethyläther d. α - β -Di[6-Nitro-3,4-Dioxyphenyl]äthan. Sm. 205 bis 206° (*M.* 23, 890 *C.* 1904 [2] 1313).
- $C_{18}H_{20}N_2S_4$ 1) 4,4'-Biphenylenamid d. Thiopropionsäure. Sm. 228—229° (*B.* 37, 876 *C.* 1904 [1] 1004).
- $C_{18}H_{20}N_2S_8$ 1) Sulfid d. Aethylphenylamidodithioameisensäure. Sm. 115° (*B.* 36, 2282 *C.* 1903 [2] 560).
- $C_{18}H_{20}N_2S_4$ *2) Disulfid d. Aethylphenylamidodithioameisensäure. Sm. 170° (*B.* 36, 2274 *C.* 1903 [2] 563).
- $C_{18}H_{20}N_3J$ 2) 2-Jodmethylat d. 5-Methylphenylamido-3-Methyl-1-Phenylpyrazol. Sm. 194° (*B.* 36, 3277 *C.* 1903 [2] 1189).
- $C_{18}H_{21}ON$ *9) 4-tert. Amylphenylamid d. Benzolcarbonsäure. Sm. 158° (*A.* 327, 223 *C.* 1903 [1] 1408).
- 10) 1- α -Phenyläthylamid d. d- β -Phenylisobuttersäure. Sm. 119—122,5° (*Soc.* 85, 448 *C.* 1904 [1] 1445).
- $C_{18}H_{21}O_2N$ 20) Methyläther d. 4-Diäthylamido-3'-Oxydiphenylketon. Sm. 120 bis 121° (*D. R. P.* 65952). — *III, 153.
- 21) Benzoat d. α -Dimethylamido- β -Oxy- β -Phenylpropan. HCl (*C. r.* 138, 768 *C.* 1904 [1] 1196).
- 22) Phenylamidoformiat d. β -Oxy- δ -Phenyl- β -Buten. Sm. 143—144° (*B.* 37, 2314 *C.* 1904 [2] 217).
- $C_{18}H_{21}O_2N_5$ C 63,7 — H 6,2 — O 9,4 — N 20,6 — M. G. 339.
- 1) β -Methyl- α -Phenylhydrazid d. α -Methyloximido- β -Phenylhydrazonbuttersäure. Zers. bei 208° (*A.* 328, 69 *C.* 1903 [2] 249).
- $C_{18}H_{21}O_8N$ 18) α -Phenylamidoformiat d. α -Oxy- α -[3-Oxyphenyl]butan-3-Methyläther. Sm. 63—64° (*B.* 37, 3999 *C.* 1904 [2] 1641).
- 19) α -Phenylamidoformiat d. 5-Oxy-2-[α -Oxypropyl]-1-Methylbenzol-5-Methyläther. Sm. 94—95° (*B.* 37, 3994 *C.* 1904 [2] 1640).
- 20) α -Phenylamidoformiat d. 4-Oxy-3-[α -Oxypropyl]-1-Methylbenzol-4-Methyläther. Sm. 91° (*B.* 37, 3995 *C.* 1904 [2] 1640).
- 21) α -Phenylamidoformiat d. 6-Oxy-3-[α -Oxypropyl]-1-Methylbenzol-6-Methyläther. Sm. 78° (*B.* 37, 3992 *C.* 1904 [2] 1640).
- 22) α -Phenylamidoformiat d. 2-Oxy-1-[α -Oxypropyl]benzol-2-Aethyläther. Sm. 95—96° (*B.* 37, 3989 *C.* 1904 [2] 1639).
- $C_{18}H_{21}O_3N_5$ C 60,9 — H 5,9 — O 13,5 — N 19,7 — M. G. 355.
- 1) Phenylamido-4-Nitrophenylhydrazonmethyläther d. 1-Oxyhexahydropyridin. Sm. 211° (*B.* 37, 3237 *C.* 1904 [2] 1153).
- $C_{18}H_{21}O_4N$ 12) Oxycodcin. Sm. 207—208° (*B.* 36, 3068 *C.* 1903 [2] 953).
- 13) 4-Aethoxyphenylamidoformiat d. 3,4-Dioxy-1-Propylbenzol. Sm. 122° (*C. r.* 138, 425 *C.* 1904 [1] 798).
- $C_{18}H_{21}O_6N$ 2) Verbindung (aus 1,3,5-Trioxylbenzoltrimethyläther). + C_2H_6O , HNO_3 (*Ar.* 242, 511 *C.* 1904 [2] 1386).
- $C_{18}H_{21}N_3S_2$ 4) Aethyläther d. α -[β -2-Methylphenylthioureido]- α -[2-Methylphenyl]-imido- α -Merkaptomethan. Sm. 86—87° (*Am.* 30, 181 *C.* 1903 [2] 873).
- $C_{18}H_{21}ClJ_2$ 1) β -Joddi[4-Propylphenyl]jodoniumchlorid. Zers. bei 43°. + $HgCl_2$, 2 + $PtCl_4$ (*A.* 327, 316 *C.* 1903 [2] 354).
- 2) β -Jod-4,4'-Dimethyl-2,2'-Diäthylidiphenyljodoniumchlorid. Sm. 157° u. Zers. 2 + $PtCl_4$ (*J. pr.* [2] 69, 443 *C.* 1904 [2] 590).
- $C_{18}H_{21}BrJ_2$ 1) β -Joddi[4-Propylphenyl]jodoniumbromid. Sm. 45° (*A.* 327, 316 *C.* 1903 [2] 354).
- 2) β -Jod-4,4'-Dimethyl-2,2'-Diäthylidiphenyljodoniumbromid. Sm. 151° (*J. pr.* [2] 69, 443 *C.* 1904 [2] 589).
- $C_{18}H_{22}OJ_2$ 1) β -Jod-4,4'-Dimethyl-2,2'-Diäthylidiphenyljodoniumhydroxyd. Salze siehe (*J. pr.* [2] 69, 442 *C.* 1904 [2] 589).
- $C_{18}H_{22}O_2N_2$ 18) Diäthyläther d. α -Phenylhydrazon- α -[2,4-Dioxyphenyl]äthan. Sm. 109° (*B.* 37, 366 *C.* 1904 [1] 671).
- 19) 3,6-Di[Dimethylamido]-9-Oxy-9-Methylxanthen. Sm. 152°. 2 Chlorid + $PtCl_4$ (*B.* 27, 2895). — *III, 569.
- $C_{18}H_{22}O_8N_2$ 13) Phenylbenzylhydrazon d. Parasaccharopentose. Sm. 112—114° (*B.* 37, 1201 *C.* 1904 [1] 1197).
- $C_{18}H_{22}O_5N_4$ 4) Di[Phenylhydrazon] d. Fukose. Sm. 177,5° (*B.* 37, 3860 *C.* 1904 [2] 1712).

- $C_{18}H_{22}O_8N_4$ 5) Di[Phenylhydrazon] d. act. Rhodeose. Sm. 176,5° (*B.* 37, 3859 *C.* 1904 [2] 1712).
- 6) Di[Phenylhydrazon] d. r-Rhodeose. Sm. 187° (*B.* 37, 3861 *C.* 1904 [2] 1712).
- $C_{18}H_{22}O_4N_2$ *9) Tetramethyläther d. 4,4'-Di[Dioxymethyl]azobenzol (*C. r.* 138, 289 *C.* 1904 [1] 722).
- 10) Diphenylhydrazon d. Fukose. Sm. 198° (*B.* 37, 306 *C.* 1904 [1] 649).
- 11) Tetramethyläther d. 2,2'-Di[Dioxymethyl]azobenzol. Sm. 144° (*C. r.* 138, 289 *C.* 1904 [1] 722).
- 12) Tetramethyläther d. 3,3'-Di[Dioxymethyl]azobenzol. Sm. 86° (*C. r.* 138, 289 *C.* 1904 [1] 722).
- 13) Tetramethyläther d. 4,4'-Di[Dioxymethyl]azobenzol. Sm. 118°; Sd. 250°₁₅₋₂₀ (*Bl.* [3] 31, 453 *C.* 1904 [1] 1498).
- $C_{18}H_{22}O_4N_4$ 19) Di[Phenylhydrazon] d. Cocaose. Sm. 179—180° (*J. pr.* [2] 66, 408 *C.* 1903 [1] 527).
- $C_{18}H_{22}O_4S_2$ *1) $\alpha\beta$ -Di[2,4-Dimethylphenylsulfon]äthan. Sm. 163° (*J. pr.* [2] 68, 311 *C.* 1903 [2] 1115).
- $C_{18}H_{22}O_7N_2$ C 57,1 — H 5,8 — O 29,6 — N 7,4 — M. G. 378.
- 1) Hexamethyläther d. 2,4,6,2',4',6'-Hexaoxydiphenylnitrosamin. Sm. 193° (*Ar.* 242, 510 *C.* 1904 [2] 1386).
- $C_{18}H_{22}NBr$ 1) Methylallylbenzyl-4-Methylphenylammoniumbromid. Sm. 146 bis 147° u. Zers. (*B.* 37, 2723 *C.* 1904 [2] 592).
- $C_{18}H_{22}NJ$ 3) Methylallylbenzyl-2-Methylphenylammoniumjodid. Sm. 154—155° (*B.* 37, 3897 *C.* 1904 [2] 1612).
- 4) isom. Methylallylbenzyl-2-Methylphenylammoniumjodid (*B.* 37, 3898 *C.* 1904 [2] 1612).
- 5) Methylallylbenzyl-4-Methylphenylammoniumjodid. Zers. bei 144—146° (*Ph. Ch.* 45, 238 *C.* 1903 [2] 979; *B.* 37, 2720 *C.* 1904 [2] 592).
- 6) Jodäthylat d. 1-Benzyl-1,2,3,4-Tetrahydrochinolin. Sm. 105—106° (*Soc.* 83, 1417 *C.* 1904 [1] 439).
- $C_{18}H_{22}ClJ$ 2) Di[4-Propylphenyl]jodoniumchlorid. Sm. 143°. + $HgCl_2$, 2 + $PtCl_4$ (*A.* 327, 310 *C.* 1903 [2] 353).
- 3) 4,4'-Dimethyl-2,2'-Diäthylidiphenyljodoniumchlorid. Sm. 120°. + $HgCl_2$, 2 + $PtCl_4$ (*J. pr.* [2] 69, 441 *C.* 1904 [2] 589).
- $C_{18}H_{22}BrJ$ 2) Di[4-Propylphenyl]jodoniumbromid. Sm. 158° (*A.* 327, 311 *C.* 1903 [2] 353).
- 3) 4,4'-Dimethyl-2,2'-Diäthyljodoniumbromid. Sm. 162° (*J. pr.* [2] 69, 440 *C.* 1904 [2] 589).
- $C_{18}H_{22}ON$ *1) Methylphenylamidomethylencampher (*C. r.* 136, 1223 *C.* 1903 [2] 116).
- 3) Methylallylbenzyl-4-Methylphenylammoniumhydroxyd. Salze siehe (*B.* 37, 2720 *C.* 1904 [2] 592).
- 4) Aethylhydroxyd d. 1-Benzyl-1,2,3,4-Tetrahydrochinolin. d-Campher-sulfonat (*Soc.* 83, 1418 *C.* 1904 [1] 439).
- $C_{18}H_{22}OJ$ 2) Di[4-Propylphenyl]jodoniumhydrat. Salze siehe (*A.* 327, 310 *C.* 1903 [2] 353).
- 3) 4,4'-Dimethyl-2,2'-Diäthylidiphenyljodoniumhydroxyd. Salze siehe (*J. pr.* [2] 69, 440 *C.* 1904 [2] 589).
- $C_{18}H_{22}O_4N$ 7) Aethylester d. isom. Benzoyllecgonin. Sm. 110—111° (*C.* 1899 [1] 848). — *III, 645.
- $C_{18}H_{22}O_5N$ 2) Anhydrocotarninacetonylaceton. Sm. 147—149°. HCl , (2 HCl , $PtCl_4$) (*B.* 37, 2746 *C.* 1904 [2] 545).
- $C_{18}H_{22}O_8N$ 2) Hexamethyläther d. 2,4,6,2',4',6'-Hexaoxydiphenylamin. Sm. 142° (*Ar.* 242, 509 *C.* 1904 [2] 1386).
- 3) Aethylester d. Anhydrocotarninacetessigsäure. Sm. 59—60°. HCl , (2 HCl , $PtCl_4$) (*B.* 37, 2746 *C.* 1904 [2] 545).
- 4) Diäthylester d. Anhydrohydrastininmalonsäure. Sm. 55—57° (*B.* 37, 2742 *C.* 1904 [2] 544).
- $C_{18}H_{24}O_4N_2$ 2) Tetramethyläther d. $\alpha\beta$ -Di[2-Dioxymethylphenyl]hydrazin. Sm. 115° (*C. r.* 138, 289 *C.* 1904 [1] 722; *Bl.* [3] 31, 871 *C.* 1904 [2] 661).
- $C_{18}H_{24}O_6N_4$ C 55,1 — H 6,1 — O 24,5 — N 14,3 — M. G. 392.
- 1) α -(α -Benzoylamidoacetylamidobisamidopropionyl)amidopropion-säure. Sm. 230° (*J. pr.* [2] 70, 127 *C.* 1904 [2] 1038).

- $C_{18}H_{24}O_{10}N_2$ C 50,4 — H 5,6 — O 37,4 — N 6,6 — M. G. 428.
 1) Dimethylester d. $\delta\epsilon$ -Diacetoximido- $\gamma\zeta$ -Diketo- $\beta\eta$ -Dimethyloktan- $\beta\eta$ -Dicarbonsäure (Soc. 83, 1261 C. 1903 [2] 1423).
- $C_{18}H_{25}ON_3$ 2) Semicarbazon d. Benzyltanacetone. Sm. 195° (B. 36, 4370 C. 1904 [1] 455).
- $C_{18}H_{25}O_2Br$ 1) Verbindung (aus Cholsäure). Sm. 130° u. Zers. (C. 1903 [2] 728).
 $C_{18}H_{25}O_4N$ C 67,7 — H 7,8 — O 20,1 — N 4,4 — M. G. 319.
- $C_{18}H_{25}ON_2$ 1) Hydroxylaminderivat d. 1-Piperonylidenmenthon. Sm. 173–174° (C. 1904 [2] 1046).
 C 75,5 — H 9,1 — O 5,6 — N 9,8 — M. G. 286.
- $C_{18}H_{28}ON_2$ 1) α -[4-Methylphenyl]- β -Bornylharnstoff. Sm. 198° (Soc. 85, 1192 C. 1904 [2] 1125).
- $C_{18}H_{28}O_2Br_2$ 1) Benzoat d. $\alpha\beta$ - oder $\beta\gamma$ -Dibrom- β -Oxyundekan. Fl. (Soc. 81, 150 C. 1903 [1] 436).
 C 61,7 — H 7,4 — O 22,9 — N 8,0 — M. G. 350.
- $C_{18}H_{28}O_3N_2$ 1) α -[α -Carbäthoxylamidoisocapronyl]amido- β -Phenylpropionsäure. Sm. 140–141,5° (B. 37, 3310 C. 1904 [2] 1306).
 C 48,0 — H 5,8 — O 21,3 — N 24,9 — M. G. 450.
- $C_{18}H_{28}O_8N_8$ 1) Tetraacetylderivat d. Verb. $C_{18}H_{18}O_8N_8$. Sm. 178° u. Zers. (B. 36, 1300 C. 1903 [1] 1256).
- $C_{18}H_{28}O_8S_2$ 1) Diäthylester d. 1,3-Phenylendi[α -Sulfonbuttersäure]. Sm. 96° (J. pr. [2] 68, 328 C. 1903 [2] 1171).
- $C_{18}H_{27}O_3N$ 3) Hydroxylaminderivat d. 1-p-Anisylidenmenthon. Sm. 165–166° (C. 1904 [2] 1046).
 4) 4-Methylphenylmonamid d. cis- $\beta\zeta$ -Dimethylheptan- $\gamma\delta$ -Dicarbonsäure. Sm. 156–157° (Am. 30, 238 C. 1903 [2] 934).
- $C_{18}H_{27}O_4N$ 3) Methyloxyhydrat d. Atropin. Nitrat, Sulfat (D.R.P. 138443 C. 1903 [1] 427).
 4) 2-Nitrophenylester d. Laurinsäure. Sm. 35–36° (A. 332, 205 C. 1904 [2] 211).
- $C_{18}H_{27}O_{14}N$ *1) Chondroitin (H. 37, 411 C. 1903 [1] 1146).
 $C_{18}H_{29}O_5N$ 3) Phenylamidoformiat d. α -Oxyundekan. Sm. 55–55,5° (Bl. [3] 31, 51 C. 1904 [1] 507).
 4) Phenylamid d. α -Oxyundekan- α -Carbonsäure. Sm. 83° (Bl. [3] 29, 1127 C. 1904 [1] 261).
 5) 2-Oxyphenylamid d. Laurinsäure. Sm. 68–69° (A. 332, 206 C. 1904 [2] 211).
- $C_{18}H_{30}ON_2$ C 74,5 — H 10,3 — O 5,5 — N 9,6 — M. G. 290.
 1) Phenylhydrazid d. Laurinsäure. Sm. 105° (Bl. [3] 29, 1122 C. 1904 [1] 259).
- $C_{18}H_{30}O_4N_2$ C 63,9 — H 8,9 — O 18,9 — N 8,3 — M. G. 338.
 1) Verbindung (aus Nitrosodihydrolauroilaktam). Sm. 327–328° (Am. 32, 1223 C. 1904 [2] 1223).
- $C_{18}H_{32}O_2Br_4$ 7) Elaeomargarinsäuretetra-bromid. Sm. 114° (Soc. 83, 1044 C. 1903 [2] 657).
- $C_{18}H_{33}ON$ C 77,4 — H 11,8 — O 5,7 — N 5,0 — M. G. 279.
 1) Amid d. α -Heptadeken- α -Carbonsäure. Sm. 107–108° (G. 34 [2] 85 C. 1904 [2] 694).
 2) Amid d. Chaulmoograsäure. Sm. 106° (Soc. 85, 855 C. 1904 [2] 348, 604).
- $C_{18}H_{33}O_2Br$ *1) Bromölsäure (J. pr. [2] 67, 308 C. 1903 [1] 1404).
 3) Bromdihydrochaulmoograsäure. Sm. 36–38° (Soc. 85, 856 C. 1904 [2] 348, 856).
- $C_{18}H_{34}O_2Br_2$ *1) Dibromstearinsäure (aus Elaidinsäure). Sm. 26–28° (J. pr. [2] 67, 291 C. 1903 [1] 1404).
 5) $\alpha\beta$ -Dibromstearinsäure. Sm. 72° (G. 34 [2] 85 C. 1904 [2] 694).
- $C_{18}H_{34}O_6N_2$ C 57,7 — H 9,1 — O 25,7 — N 7,5 — M. G. 374.
 1) Nitrit d. Nitrooxystearinsäure. Sm. 85–87° (C. 1904 [1] 260).
- $C_{18}H_{34}N_2J_2$ 1) Jodmethylat-Jodäthylat d. Spartein. Sm. 239° (Ar. 242, 516 C. 1904 [2] 1412).
 2) isom. Jodmethylat-Jodäthylat d. Spartein. Sm. 246° (Ar. 242, 516 C. 1904 [2] 1412).
- $C_{18}H_{35}ON$ 4) Nitril d. α -Oxyheptadekan- α -Carbonsäure. Sm. 61,5–62,5° (Soc. 85, 834 C. 1904 [2] 509).

- $C_{18}H_{35}OCl$ 2) Chlorid d. λ -Isostearinsäure. Fl. (*Ar.* 241, 18 *C.* 1903 [1] 698).
 $C_{18}H_{35}O_2Br$ * 1) α -Bromstearinsäure. Sm. 57—58° (*G.* 34 [2] 79 *C.* 1904 [2] 693).
 $C_{18}H_{35}O_2Cl$ 3) β -Chloräthylester d. Palmitinsäure. Sm. 44°; Sd. 138° (*B.* 36, 4340 *C.* 1904 [1] 433).
 $C_{18}H_{35}O_2Br$ 3) β -Bromäthylester d. Palmitinsäure. Sm. 62°; Sd. 144° (*B.* 36, 4340 *C.* 1904 [1] 433).
 $C_{18}H_{35}O_3J$ * 1) α -Jodstearinsäure. Sm. 66° (*G.* 34 [2] 80 *C.* 1904 [2] 693).
 $C_{18}H_{35}O_3N$ 6) γ -Oximidoheptadekan- α -Carbonsäure. Sm. 85° (*C.* 1903 [1] 826; *J. pr.* [2] 67, 418 *C.* 1903 [1] 1405).
 7) Tetradekylmonamid d. Bernsteinsäure. Sm. 123° (*C.* 1903 [1] 826; *J. pr.* [2] 67, 419 *C.* 1903 [1] 1405).
 $C_{18}H_{35}O_3N_8$ C 63,3 — H 10,3 — O 14,1 — N 12,3 — M. G. 341.
 1) Myristat d. β -Semicarbazon- α -Oxypropan. Sm. 111—112° (*C. r.* 138, 1275 *C.* 1904 [2] 94).
 $C_{18}H_{35}O_3N$ C 62,6 — H 10,1 — O 23,2 — N 4,1 — M. G. 345.
 1) p -Nitrooxystearinsäure. Fl. (*C.* 1904 [1] 260).
 $C_{18}H_{35}O_6N_7$ C 50,3 — H 8,2 — O 18,6 — N 22,8 — M. G. 429.
 1) Verbindung (aus Trypsin). $4HNO_3 + 2AgNO_3$ (*H.* 25, 190). — *III, 689.
 $C_{18}H_{37}ON_3$ C 69,4 — H 11,9 — O 5,1 — N 13,5 — M. G. 311.
 1) α -Semicarbazonheptadekan. Sm. 107—108° (*Soc.* 85, 833 *C.* 1904 [1] 638 *C.* 1904 [2] 509).
 $C_{18}H_{37}O_2N$ 4) Amid d. α -Oxyheptadekan- α -Carbonsäure. Sm. 148—149° (*Soc.* 85, 831 *C.* 1904 [2] 509).
 $C_{18}H_{37}O_3N$ C 68,6 — H 11,7 — O 15,2 — N 4,4 — M. G. 315.
 1) p -Amidooxystearinsäure. HCl (*C.* 1904 [1] 260).
 $C_{18}H_{38}N_3P$ 1) Diisobutylamidodi[1-Piperidyl]phosphin. Fl. (*A.* 326, 171 *C.* 1903 [1] 762).
 $C_{18}H_{42}N_3P$ 1) Tri[Dipropylamido]phosphin. Sd. 310—315° (*A.* 326, 170 *C.* 1903 [1] 762).

— 18 IV —

- $C_{18}H_{20}O_{12}N_8J_5$ 1) 2 Molec. 2,4[oder 4,6]-Dijod-1,3-Dinitrobenzol + 2,4,6-Trijod-1,3-Dinitrobenzol. Sm. 182° (*Am.* 32, 306 *C.* 1904 [2] 1385).
 $C_{18}H_{20}O_8N_4Cl_4$ 1) Tetrachlorbisdiöxymethylenindigo (*B.* 36, 2934 *C.* 1903 [2] 888).
 $C_{18}H_{20}O_4Cl_4P$ 1) Tri[p -Dichlorphenylester] d. Phosphorsäure. Sm. 96° (*D.R.P.* 142832 *C.* 1903 [2] 171).
 $C_{18}H_{10}ON_2Br_4$ 1) Tetrabromdihydro- β -Chinophtalin. Sm. 78° (*B.* 37, 3022 *C.* 1904 [2] 1410).
 $C_{18}H_{10}O_2NBr$ 2) Bromisochinophtalon. Sm. 275° (*B.* 37, 3020 *C.* 1904 [2] 1410).
 $C_{18}H_{11}ON_2Br$ 3) 3-Brom-7[oder 8]-Phenylhydrazon-8[oder 7]-Ketonaphtacen. Sm. 153° (*A.* 327, 89 *C.* 1903 [1] 1228).
 $C_{18}H_{12}ON_4Br_2$ 1) p -Di[2-Bromphenylazo]-1-Oxybenzol. Sm. 160° (*B.* 36, 3864 *C.* 1904 [1] 91).
 2) p -Di[3-Bromphenylazo]-1-Oxybenzol. Sm. 162—163° (*B.* 36, 3867 *C.* 1904 [1] 92).
 $C_{18}H_{12}O_2N_2Br_2$ 2) 3,6-Dibrom-4,5-Di[Phenylamido]-1,2-Benzochinon. Sm. 160° + CH_3O , + C_2H_5O , + Anilin (*B.* 35, 3852 *C.* 1903 [1] 26; *Am.* 30, 526 *C.* 1904 [1] 366).
 $C_{18}H_{12}O_2N_8S$ 1) Homofluorindin-2-Sulfonsäure (*B.* 36, 4034 *C.* 1904 [1] 295).
 $C_{18}H_{12}O_4Cl_3P$ 2) Tri[p -Chlorphenylester] d. Phosphorsäure. Sm. 118° (*D.R.P.* 142832 *C.* 1903 [2] 171).
 $C_{18}H_{12}O_4Cl_4Br_2$ 1) Diacetat d. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 218° (*A.* 325, 66 *C.* 1903 [1] 463).
 $C_{18}H_{13}ON_2S_2$ 1) 2-Thiocarbonyl-4-Keto-3-Phenyl-5-Cinnamylidentetrahydrothiazol. Sm. 217° (*M.* 24, 513 *C.* 1903 [2] 837).
 $C_{18}H_{13}ON_4Br$ 1) 3-Phenylazo-4-[4-Bromphenyl]azo-1-Oxybenzol. Sm. 115° (*B.* 36, 4116 *C.* 1904 [1] 272).
 $C_{18}H_{13}O_3NS_2$ 1) Acetat d. 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden]-3-Phenyltetrahydrothiazol. Sm. 202° (*M.* 25, 166 *C.* 1904 [1] 894).
 $C_{18}H_{13}O_5N_4Cl$ 1) 1-Acetylamido-2-[5-Chlor-2,4-Dinitrophenyl]amidonaphtalin (*B.* 37, 3888 *C.* 1904 [2] 1654).
 $C_{18}H_{14}ONCl$ 2) Chlormethylat d. 7-Oxy-1,2-Naphtakridin (*B.* 37, 3081 *C.* 1904 [2] 1474).

- $C_{18}H_{14}N_2ClJ$ 1) 4-Phenylazodiphenyljodoniumchlorid. Sm. 205°. + $HgCl_2$, 2 + $PtCl_4$ (B. 37, 1313 C. 1904 [1] 1341).
- $C_{18}H_{14}N_2BrJ$ 1) 4-Phenylazodiphenyljodoniumbromid. Sm. 135° (B. 37, 1314 C. 1904 [1] 1341).
- $C_{18}H_{15}ON_2J$ 1) 4-Phenylazodiphenyljodoniumhydroxyd. Salze siehe (B. 37, 1313 C. 1904 [1] 1341).
- $C_{18}H_{15}O_2NS$ * 1) Diphenylamid d. Benzolsulfonsäure. Sm. 122—123° (B. 36, 2706 C. 1903 [2] 829).
- $C_{18}H_{15}O_2N_2J$ 1) Jodmethylat d. α -[2-Nitrophenyl]- β -[4-Chinolyl]äthen. Sm. 237° (B. 36, 1670 C. 1903 [2] 49).
- $C_{18}H_{15}O_2NCl_4$ 1) 3,4,5,6-Tetrachlor-4'-Diäthylamido-2'-Oxydiphenylketon-2-Carbonsäure (D.R.P. 118077 C. 1901 [1] 602). — *II, 1094.
- $C_{18}H_{15}O_4NBr_2$ 1) Methylester d. γ -Dibrom- α -[4-Nitrophenyl]- δ -Phenyl- α -Buten- α -Carbonsäure. Sm. 133—136° (A. 336, 220 C. 1904 [2] 1733).
- $C_{18}H_{15}O_4NS_2$ * 2) Phenylimid d. Benzolsulfonsäure. Sm. 143—144° (C. r. 137, 714 C. 1903 [2] 1428).
- $C_{18}H_{15}O_5NS$ 2) 4-Methylbenzolsulfonat d. α -Cyan- β -Oxy- β -Phenylakrylsäuremethylester. Sm. 97—98° (Bl. [3] 31, 339 C. 1904 [1] 1135).
- $C_{18}H_{15}O_{13}N_7S$ 1) O-Amylätber-S-2,4,6-Trinitrophenylätber d. 2,4,6-Trinitrophenylimidomerkaptooxymethan. Sm. 138,5° (Soc. 85, 649 C. 1904 [2] 310).
- $C_{18}H_{16}O_2N_2Br_2$ 2) 4,8-Dibrom-1,5-Di[Dimethylamido]-9,10-Anthrachinon. Sm. 236° (D.R.P. 146691 C. 1903 [2] 1352).
- $C_{18}H_{18}O_8N_4S$ 1) 2-[4-Dimethylamidophenyl]imido-4-Keto-5-[4-Nitrobenzyliden]-tetrahydrothiazol (C. 1903 [1] 1258).
- $C_{18}H_{18}O_9ClBr$ * 1) δ -Acetat d. isom. γ -Chlor- γ -Brom- α -Dioxy- α - δ -Diphenyl- α -Buten (α -Acetylchlorbromdiphenacyl). Sm. 122° (B. 36, 2398 C. 1903 [2] 498).
- * 2) δ -Acetat d. isom. γ -Chlor- γ -Brom- α -Dioxy- α - δ -Diphenyl- α -Buten (β -Acetylchlorbromdiphenacyl). Sm. 91° (B. 36, 2397 C. 1903 [2] 498).
- 3) δ -Acetat d. isom. γ -Chlor- γ -Brom- α -Dioxy- α - δ -Diphenyl- α -Buten. Sm. 104° (114°) (B. 36, 2396 C. 1903 [2] 498).
- $C_{18}H_{16}O_4N_2S_2$ * 6) Di[Phenylamid] d. Benzol-1,3-Disulfonsäure. Sm. 150° (Soc. 85, 1187 C. 1904 [2] 1115).
- $C_{18}H_{16}O_4N_2S_3$ 1) Diacetylderivat d. Farbstoffs $C_{14}H_{12}O_3N_2S_8$ (J. pr. [2] 69, 170 C. 1904 [1] 1268).
- $C_{18}H_{18}O_5N_3Br$ 1) 3-Brom- β -Dinitro-4'-[1-Piperidyl]diphenylketon. Sm. 76° u. Zers. (B. 37, 3486 C. 1904 [2] 1131).
- $C_{18}H_{17}ON_2S$ 1) 1-Benzylidenamido-2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Phenyltetrahydroimidazol. Sm. 135° (C. 1904 [2] 1027).
- $C_{18}H_{17}ON_4Cl$ 2) Äthylätber d. 5-Chlor-4-[4-Oxyphenyl]-3-Methyl-1-Phenylpyrazol. Sm. 123° (D.R.P. 153861 C. 1904 [2] 680).
- $C_{18}H_{17}O_2NBr_2$ 1) Acetat d. 1-[3,5-Dibrom-2-Oxybenzyl]-1,2,3,4-Tetrahydrochinolin. Sm. 105° (A. 332, 224 C. 1904 [2] 203).
- $C_{18}H_{17}O_2N_2P$ * 1) Di[Phenylamid] d. Phosphorsäuremonophenylester. Sm. 179,5° (169°) (A. 326, 247 C. 1903 [1] 868).
- $C_{18}H_{17}O_6NS$ 6) 2-[4-Dimethylphenyl]amidonaphtalin-6-Sulfonsäure (C. 1904 [1] 1013).
- $C_{18}H_{17}O_8N_4P$ 1) Di[Phenylamid]-3-Nitrophenylamid d. Phosphorsäure. Sm. 177° (A. 326, 237 C. 1903 [1] 867).
- 2) Di[Phenylamid]-4-Nitrophenylamid d. Phosphorsäure. Sm. 272° (A. 326, 237 C. 1903 [1] 867).
- $C_{18}H_{17}O_4NCl_2$ 1) 3,6-Dichlor-4'-Diäthylamido-2'-Oxydiphenylketon-2-Carbonsäure (D.R.P. 118077 C. 1901 [1] 602). — *II, 1094.
- $C_{18}H_{17}O_4NS$ 3) 2-[4-Aethoxylphenyl]amidonaphtalin-6-Sulfonsäure. NH_4 (C. 1904 [1] 1013).
- 4) 2-[4-Aethoxylphenyl]amidonaphtalin-8-Sulfonsäure (C. 1904 [1] 1013).
- $C_{18}H_{17}O_5NS$ 2) 7-[4-Aethoxylphenyl]amido-1-Oxynaphtalin-3-Sulfonsäure (C. 1904 [1] 1013).
- $C_{18}H_{18}ONJ$ 1) Jodmethylat d. 4-[4-Oxybenzyl]isochinolin-4-Methylätber. Sm. 219° u. Zers. (A. 326, 296 C. 1903 [1] 929).
- $C_{18}H_{18}ON_2P$ * 2) Tri[Phenylamid] d. Phosphorsäure (C. r. 139, 206 C. 1904 [2] 647).
- $C_{18}H_{18}ON_4S_2$ 3) 1-Phenylthioureido-2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Phenyltetrahydroimidazol. Zers. bei 233° (C. 1904 [2] 1027).

- $C_{18}H_{18}O_2NCl$ 1) α -[3-Chlorphenyl]amido- β -Acetyl- γ -Keto- α -Phenylbutan. Sm. 93—94° (*Soc.* 85, 1175 *C.* 1904 [2] 1215).
 2) α -[4-Chlorphenyl]amido- β -Acetyl- γ -Keto- α -Phenylbutan. Sm. 99° (*Soc.* 85, 1175 *C.* 1904 [2] 1215).
- $C_{18}H_{18}O_2N_2Br_4$ 1) 1,4-Di[3,5-Dibrom-2-Oxybenzyl]hexahydro-1,4-Diazin. Sm. 240 bis 242° (*A.* 332, 222 *C.* 1904 [2] 203).
- $C_{18}H_{18}O_2N_2S$ 2) 2-Acetad-2-Merkapto-6-Oxy-1-[4-Methylphenyl]benzimidazol-6-Aethyläther. Sm. 145° (*B.* 36, 3851 *C.* 1904 [1] 89).
- $C_{18}H_{18}O_3NBr$ 1) α -[α -Brom- β -Phenylpropionyl]amido- β -Phenylpropionsäure. Sm. 174—175° (*B.* 37, 3068 *C.* 1904 [2] 1208).
- $C_{18}H_{19}ON_2J$ 2) Jodmethylat d. 2-Acetylamido-3,7-Dimethylakridin (*Soc.* 85, 532 *C.* 1904 [1] 1525).
- $C_{18}H_{19}O_2NBr_2$ 1) N-Acetyl-2,4,5-Trimethylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 120—121° (*A.* 332, 198 *C.* 1904 [2] 210).
 2) Acetat d. Methylphenyl-3,6-Dibrom-4-Oxy-2,5-Dimethylbenzylamin. Sm. 102—103° (*A.* 334, 305 *C.* 1904 [2] 986).
- $C_{18}H_{19}O_2N_3S_3$ 1) Verbindung (aus 4-Nitrobenzoylchlorid u. Methyläthylphenylthiuram-sulfid). Sm. 138° (*B.* 36, 2284 *C.* 1903 [2] 561).
- $C_{18}H_{19}O_3NS$ 1) 4-[4-Methylphenyl]merkapto-2-Methylphenylamid d. Oxal-säuremonoäthylester. Sm. 113—114° (*J. pr.* [2] 68, 283 *C.* 1903 [2] 994).
 2) 4-[4-Methylphenyl]merkapto-3-Methylphenylamid d. Oxal-säuremonoäthylester. Sm. 113° (*J. pr.* [2] 68, 292 *C.* 1903 [2] 995).
- $C_{18}H_{19}O_3N_2Br$ 1) 6-Methyläther-4,5-Methylenäther d. 3-Brom-4,5,6-Triox-2-[β -Methylamidoäthyl]-1-Phenylimidomethylbenzol (Bromectarinanil). Sm. 127° (*B.* 36, 1535 *C.* 1903 [2] 52).
- $C_{18}H_{19}N_2JS$ 1) 2-Jodmethylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Benzyläther. Sm. 174—175° (*A.* 331, 203 *C.* 1904 [1] 1218).
- $C_{18}H_{20}ON_2S_2$ 2) 5-Methyläther-2-Aethyläther d. 5-Merkapto-2-Oxy-2-Phenyl-3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 83° (*J. pr.* [2] 67, 260 *C.* 1903 [1] 1266).
- $C_{18}H_{20}O_2NBr$ 3) Brommethylat d. Apomorphin (Eupophin). Sm. 180° (*C.* 1904 [1] 1581).
- $C_{18}H_{20}O_2N_2Se_2$ 2) Di[Methylphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbon-säure. Sm. 94—95° (*Ar.* 241, 217 *C.* 1903 [2] 104).
 3) Di[2-Methylphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbon-säure. Sm. 174—175° (*Ar.* 241, 204 *C.* 1903 [2] 104).
 4) Di[3-Methylphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbon-säure. Sm. 158° (*Ar.* 241, 206 *C.* 1903 [2] 104).
 5) Di[4-Methylphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbon-säure. Sm. 174° (*Ar.* 241, 206 *C.* 1903 [2] 104).
- $C_{18}H_{20}O_3N_4Br_2$ 1) Di[4-Bromphenylhydrazon] d. Rhamnose. Sm. 215° u. Zers. (*Soc.* 83, 1287 *C.* 1904 [1] 86).
- $C_{18}H_{20}O_3N_4S$ 1) Dimethyläther d. Acetyl-di[2-Oxyphenyl]thiodieyandiamin. Sm. 205—206° (*B.* 36, 3324 *C.* 1903 [2] 1169).
- $C_{18}H_{20}O_4N_2Se_2$ 1) Di[2-Methoxyphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbon-säure. Sm. 124° (*Ar.* 241, 214 *C.* 1903 [2] 104).
 2) Di[4-Methoxyphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbon-säure. Sm. 172° (*Ar.* 241, 215 *C.* 1903 [2] 104).
- $C_{18}H_{20}O_6N_2S_2$ 1) Monophenylhydrazon d. 1,3-Di[Acetonysulfon]benzol. Sm. 152° u. Zers. (*J. pr.* [2] 68, 326 *C.* 1903 [2] 1171).
- $C_{18}H_{20}O_8N_2S_2$ 1) 4,4'-Di[Acetylamido]-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure. Na_2 (*J. pr.* [2] 66, 569 *C.* 1903 [1] 519).
- $C_{18}H_{21}O_2N_2P$ 1) Di[4-Methylphenylamid] d. Phosphorsäuremonoäthylester. Sm. 108° (*A.* 326, 249 *C.* 1903 [1] 868).
- $C_{18}H_{22}O_4NBr$ 2) Methylhydroxyd d. Brommorphin (*A.* 297, 212). — *III, 669.
- $C_{18}H_{22}O_5N_2S$ 1) α -d-[2-Naphtylsulfonamidoacetyl]amido- γ -Methylvalerian-säure. Sm. 124,3—125° (*B.* 36, 2601 *C.* 1903 [2] 619).
 2) α -1-[2-Naphtylsulfonamidoacetyl]amido- γ -Methylvaleriansäure. Sm. 144—145° (*B.* 36, 2602 *C.* 1903 [2] 619).
- $C_{18}H_{23}ON_2J$ 1) Hydrojod- δ -Cinchonin. 2HJ (*M.* 22, 163). — *III, 640.
- $C_{18}H_{23}O_2NBr_2$ *1) Methylhydroxyd d. 3,6-Dibrom-4-Dimethylamido-4-Oxy-2,5-Dimethylbiphenylmethan. Sm. 208°. Salze siehe (*A.* 334, 290 *C.* 1904 [2] 984).

- $C_{18}H_{23}O_2NBr_2$ 2) Methylhydroxyd d. 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 188—189° (A. 334, 322 C. 1904 [2] 987).
- $C_{18}H_{23}O_2NS$ 5) Benzylamid d. β -Phenylpentan-P-Sulfonsäure. Sm. 62—64° (B. 36, 3690 C. 1903 [2] 1426).
- $C_{18}H_{24}O_3N_2S$ 1) 4-Amido-4'-Sulfonmethyldamido-2,5,2',5'-Tetramethyldiphenylmethan. Sm. 170° (D.R.P. 148760 C. 1904 [1] 555).
- $C_{18}H_{24}O_4NBr$ * 2) Brommethyld d. 1-Scopolamin. Sm. 216—217° (D.R.P. 145996 C. 1903 [2] 1226).
- 3) Brommethyld d. 1-Cocain (D.R.P. 48273). — *III, 645.
- $C_{18}H_{26}ON_3P$ 1) Dipropylmonamid-Di[Phenylamid] d. Phosphorsäure. Sm. 220° (A. 326, 185 C. 1903 [1] 820).
- $C_{18}H_{26}O_3NBr$ 1) Brommethyld d. Atropin. Sm. 222—223° (D.R.P. 145996 C. 1903 [2] 1225).
- 2) Brommethyld d. Hyoscyamin. Sm. 210—212° (D.R.P. 145996 C. 1903 [2] 1225).
- $C_{18}H_{26}N_3SP$ 1) Diäthylmonamid-Di[4-Methylphenylamid] d. Thiophosphorsäure. Sm. 166—167° (A. 326, 212 C. 1903 [1] 822).
- 2) Dipropylmonamid-Di[Phenylamid] d. Thiophosphorsäure. Sm. 145° (A. 326, 212 C. 1903 [1] 822).
- 3) Isobutylmonamid-Di[4-Methylphenylamid] d. Thiophosphorsäure. Sm. 152° (A. 326, 205 C. 1903 [1] 821).
- $C_{18}H_{27}O_{17}NS$ * 1) Chondroitinschwefelsäure (H. 37, 411 C. 1903 [1] 1146).
- $C_{18}H_{28}ON_5P$ 1) Dipropylmonamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 164° (A. 326, 185 C. 1903 [1] 820).
- $C_{18}H_{28}O_2NJ$ 1) Jodbenzylat d. d-2-Propylhexahydro-1-Pyridylessigsäuremethylester. Sm. 103° (B. 37, 3637 C. 1904 [2] 1510).
- 2) isom. Jodbenzylat d. d-2-Propylhexahydro-1-Pyridylessigsäuremethylester. Sm. 146° (B. 37, 3637 C. 1904 [2] 1510).
- $C_{18}H_{29}N_5SP$ 1) Dipropylmonamid-Di[Phenylhydrazid] d. Thiophosphorsäure. Sm. 196° (A. 326, 213 C. 1903 [1] 822).
- $C_{18}H_{31}O_2N_2J$ 1) Methylester d. Sparteiniodammoniumessigsäure. Sm. 230° (Ar. 242, 517 C. 1904 [2] 1412).
- $C_{18}H_{31}O_3NS$ 1) Methylamid d. ϵ -Oxy- ϵ -Phenyl- $\beta\beta$ -Dimethylnonan- ϵ^2 -Sulfonsäure. Sm. 81—82° (B. 37, 3267 C. 1904 [2] 1031).
- $C_{18}H_{42}ON_3P$ 1) Tri[Dipropylamid] d. Phosphorsäure. Fl. (A. 326, 200 C. 1903 [1] 821).
- $C_{18}H_{42}O_6N_3P_3$ 1) trim. Phosphinodipropylamin. Sd. 204°₁₀ (A. 326, 192 C. 1903 [1] 820).

— 18 V —

- $C_{18}H_{14}O_3NCl_2P$ 1) 2,4-Dichlorphenylmonamid d. Phosphorsäurediphenylester. Sm. 132° (A. 326, 229 C. 1903 [1] 867).
- $C_{18}H_{14}O_3NBr_2P$ 1) 2,4-Dibromphenylmonamid d. Phosphorsäurediphenylester. Sm. 141° (A. 326, 236 C. 1903 [1] 867).
- $C_{18}H_{14}O_4N_2Cl_2S_2$ 1) Di[Phenylchloramid] d. Benzol-1,3-Disulfonsäure. Sm. 124° (Soc. 85, 1187 C. 1904 [2] 1115).
- $C_{18}H_{15}O_3NBrP$ 1) 4-Bromphenylmonamid d. Phosphorsäurediphenylester. Sm. 112° (A. 326, 232 C. 1903 [1] 867).
- $C_{18}H_{15}O_4N_2BrS_2$ 1) Di[Phenylamid] d. 4-Brombenzol-1,2-Disulfonsäure. Sm. 182° (C. 1900 [2] 371). — *II, 223.
- $C_{18}H_{16}ON_3Br_2P$ 2) Di[Phenylamid]-2,4-Dibromphenylamid d. Phosphorsäure. Sm. 223° (A. 326, 236 C. 1903 [1] 867).
- $C_{18}H_{16}O_2N_2ClP$ 1) Di[Phenylamid] d. Phosphorsäuremono-4-Chlorphenylester. Sm. 167—168° (A. 326, 249 C. 1903 [1] 868).
- $C_{18}H_{21}ONBr_3J$ 1) Jodmethyld d. 2,6,3'-Tribrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 172—173° u. Zers. (A. 334, 325 C. 1904 [2] 988).
- $C_{18}H_{22}ONClBr_2$ 1) Chlormethyld d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 225—226° (A. 334, 292 C. 1904 [2] 984).
- $C_{18}H_{22}ONBr_2J$ * 1) Jodmethyld d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 174—175° (190—191°) (A. 334, 292 C. 1904 [2] 984).

- $C_{18}H_{22}ONBr_2J$ 2) Jodmethylat d. 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 193—196° u. Zers. (A. 334, 321 C. 1904 [2] 987).

C₁₉-Gruppe.

- $C_{19}H_{14}$ *2) 9-Phenylfluoren. Sm. 145° (146—148°) (B. 37, 74 C. 1904 [1] 518; B. 37, 2897 C. 1904 [2] 1310).
- $C_{19}H_{16}$ *1) Triphenylmethan (B. 36, 383 C. 1903 [1] 716; C. r. 137, 59 C. 1903 [2] 574; C. r. 138, 92 C. 1904 [1] 509; B. 37, 616 C. 1904 [1] 811).
- 4) 2-Benzylacenaphten. Sm. 112—113°; Sd. 340—345° (Bl. [3] 31, 375 C. 1904 [1] 1271; Bl. [3] 31, 924 C. 1904 [2] 778).
- $C_{19}H_{22}$ 2) $\alpha\alpha$ -Diphenyl- α -Hepten. Fl. (B. 37, 1454 C. 1904 [1] 1353).
- $C_{19}H_{24}$ *1) $\alpha\alpha$ -Diphenylheptan. Sd. 333—334° (B. 37, 1454 C. 1904 [1] 1353).
- $C_{19}H_{28}$ *1) Kohlenwasserstoff (aus Cholesterylchlorid). Sd. 235—250°₂₈ (M. 24, 661 C. 1903 [2] 1236).
- $C_{19}H_{36}$ 2) Kohlenwasserstoff (aus Petroleum) (C. 1904 [1] 409).

— 19 II —

- $C_{19}H_{10}O_4$ C 75,5 — H 3,3 — O 21,2 — M. G. 302.
- 1) Methenylbisindandion. Sm. 303° (G. 32 [2] 330 C. 1903 [1] 586; G. 33 [1] 421 C. 1903 [2] 421).
- 2) Anhydrid d. 3-Benzoylnaphtalin-1,8-Dicarbonsäure. Sm. 196° (Bl. [3] 31, 379 C. 1904 [1] 1271; Bl. [3] 31, 924 C. 1904 [2] 778; Bl. [3] 31, 929 C. 1904 [2] 779).
- 3) Anhydrid d. 4-Benzoylnaphtalin-1,8-Dicarbonsäure. Sm. 195° (A. 327, 98 C. 1903 [1] 1228).
- $C_{19}H_{10}O_5$ C 71,7 — H 3,1 — O 25,2 — M. G. 318.
- 1) 1-Keto-2-[1,3-Diketo-2,3-Dihydro-2-Indenyl]inden-3-Carbonsäure. Sm. 242° (B. 35, 3959 C. 1903 [1] 32).
- $C_{19}H_{12}O_2$ 3) 2-Phenyl-3,4- β -Naphtopyron (α -Phenyl- β -Naphthocumarin). Sm. 142° (B. 36, 1971 C. 1903 [2] 377).
- $C_{19}H_{12}O_3$ 3) Anhydrid d. 2-Benzylaphtalin-4,5-Dicarbonsäure. Sm. 175° (Bl. [3] 31, 378 C. 1904 [1] 1271; Bl. [3] 31, 924 C. 1904 [2] 778).
- $C_{19}H_{12}O_5$ 3) 2,3,7-Trioxo-9-Phenylfluoren. Sm. noch nicht bei 300°. H_2SO_4 (B. 37, 1173 C. 1904 [1] 1161).
- $C_{19}H_{12}O_6$ 2) Di[4-Oxy-1,2-Benzpyron-3-]methan (Methylenbis- β -Oxycumarin). Sm. 260° u. Zers. (B. 36, 465 C. 1903 [1] 636).
- 3) 2,3,7-Trioxo-9-[2-Oxyphenyl]fluoren (B. 37, 2734 C. 1904 [2] 542).
- 4) 2,3,7-Trioxo-9-[4-Oxyphenyl]fluoren (B. 37, 2733 C. 1904 [2] 542).
- $C_{19}H_{12}O_7$ C 64,8 — H 3,4 — O 31,8 — M. G. 352.
- 1) 2,3,7-Trioxo-9-[3,4-Dioxyphenyl]fluoren. Sm. oberh. 300°. H_2SO_4 + H_2O (B. 37, 2732 C. 1904 [2] 541).
- $C_{19}H_{12}O_8$ C 62,0 — H 3,2 — O 34,8 — M. G. 368.
- 1) Diacetat d. Rhein. Sm. 236° (240°) (C. 1903 [1] 297; Ar. 240, 611 C. 1903 [1] 176; C. 1904 [1] 1077).
- $C_{19}H_{12}Cl_4$ 1) $\alpha,4,4',4'$ -Tetrachlortriphenylmethan. Sm. 146—148° (B. 37, 1635 C. 1904 [1] 1649).
- $C_{19}H_{18}N$ *3) 3-Phenyl- β -Naphthochinolin. Sm. 189° (C. r. 138, 298 C. 1904 [2] 714).
- *4) 5-Phenylakridin. Sm. 181—183°. Pikrat + $\frac{1}{2}C_6H_6$ (B. 37, 3200 C. 1904 [2] 1472).
- 6) α -Di- α -Benzylenpyridin. Sm. 205°. Pikrat (G. 33 [1] 426 C. 1903 [2] 951).
- $C_{19}H_{13}Cl_3$ 1) Tri[4-Chlorphenyl]methan. Sm. 88° (C. 1903 [2] 1052).
- $C_{19}H_{14}O$ 5) 9-Oxy-9-Phenylfluoren. Sm. 106° (B. 37, 73 C. 1904 [1] 518).
- 6) 4-Keto-1-Diphenylmethylen-1,4-Dihydrobenzol (Diphenylchinoxinmethan). Sm. 167—168° (B. 36, 2335 C. 1903 [2] 441; B. 36, 2792 C. 1903 [2] 882; B. 36, 3253 C. 1903 [2] 884).
- 7) 3-Benzoylacenaphten. Sm. 101° (99°). + $AlCl_3$, Pikrat (A. 327, 96 C. 1903 [1] 1228; Bl. [3] 31, 859 C. 1904 [2] 655).
- 8) 9-Phenylxanthen. Sm. 145° (B. 37, 2371 C. 1904 [2] 344).

- C₁₉H₁₄O₂** 6) Diphenylmethylenäther d. 1,2-Dioxybenzol. Sm. 93° (*B.* 37, 3331 *C.* 1904 [2] 1050).
 7) 3-Oxy-4-Keto-1-Diphenylmethylen-1,4-Dihydrobenzol (chin. 2-Oxyfuchson). Sm. 123° (*B.* 37, 3330 *C.* 1904 [2] 1049).
 8) 9-Oxy-9-Phenylxanthen. Sm. 158° (*B.* 37, 2370 *C.* 1904 [2] 344; *B.* 37, 2933 *C.* 1904 [2] 1142).
- C₁₉H₁₄O₃** *4) Phenylester d. Diphenyläther-2-Carbonsäure. Sm. 109° (*C. r.* 136, 1075 *C.* 1903 [1] 1362; *C. r.* 139, 141 *C.* 1904 [2] 593).
- C₁₉H₁₄O₄** 13) Dilakton d. αε-Dioxy-αε-Diphenyl-β-Penten-γδ-Dicarbonsäure (Diphenylheptendilakton). Sm. 161° (*A.* 331, 176 *C.* 1904 [1] 1212).
 14) Isodiphenylheptendilakton. Sm. 234°. Ca, Ba, Ag₂ (*A.* 331, 181 *C.* 1904 [1] 1212).
 15) Methylester d. 2-[1-Oxy-2-Naphtoyl]benzol-1-Carbonsäure. Sm. 108—109° (*B.* 36, 560 *C.* 1903 [1] 721).
 16) 1-Methylester d. 2-Phenylnaphtalin-1,2²-Dicarbonsäure. Sm. 171,5° (*A.* 335, 117 *C.* 1904 [2] 1132).
 17) 2²-Methylester d. 2-Phenylnaphtalin-1,2²-Dicarbonsäure. Sm. 124°. Ag (*A.* 334, 117 *C.* 1904 [2] 1132).
- C₁₉H₁₄O₅** *2) Vulpinsäure (*C.* 1903 [2] 121).
 8) 2,3,6,7-Tetraoxy-9-Phenylxanthen (*B.* 37, 1174 *C.* 1904 [1] 1161).
- C₁₉H₁₄O₆** *13) Pinastrinsäure (*C.* 1903 [2] 121).
 24) Trimethyläther d. Trioxybrasanchinon. Sm. 260° (*B.* 36, 2200 *C.* 1903 [2] 381).
 25) Lakton d. α-Oxy-γ-Keto-β-Phenyl-α-[3,4-Dioxyphenyl]butan-3,4-Methylenäther-β-Ketocarbonsäure. Sm. 135° (*A.* 333, 258 *C.* 1904 [2] 1391).
 26) isom. Lakton d. α-Oxy-γ-Keto-β-Phenyl-α-[3,4-Dioxyphenyl]butan-3,4-Methylenäther-β-Ketocarbonsäure. Sm. 130° (*A.* 333, 258 *C.* 1904 [2] 1391).
 27) Diacetat d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 195—196° (*B.* 37, 778 *C.* 1904 [1] 1156).
 28) Diacetat d. 3,7-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 157° (*B.* 37, 1182 *C.* 1904 [1] 1275).
 29) Diacetat d. 7,8-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 193° (*B.* 36, 4242 *C.* 1904 [1] 382).
- C₁₉H₁₄O₇** 5) Diacetat d. isom. 1,2,3-Trioxy-9,10-Anthrachinonmonomethyläther. Sm. 184° (*M.* 23, 1017 *C.* 1903 [1] 291).
- C₁₉H₁₄O₈** *1) Diacetat d. Rhein. Sm. 247—248° (*Ar.* 241, 605 *C.* 1904 [1] 169).
 3) Diacetat d. Pigments C₁₅H₁₀O₆. Sm. 125° (*B.* 36, 3960 *C.* 1904 [1] 39).
- C₁₉H₁₄Cl₂** 2) α,4-Dichlortriphenylmethan. Sm. 87° (*B.* 37, 1633 *C.* 1904 [1] 1649).
- C₁₉H₁₄Br₂** 2) 4,4'-Dibromtriphenylmethan. Sm. 100°; Sd. 260°₁₅ (*Am.* 30, 463 *C.* 1904 [1] 377).
- C₁₉H₁₅N** 6) Inn. Anhydrid d. α-Oxy-4-Amidotriphenylmethan. Sm. bei 300° u. Zers. (*B.* 36, 2794 *C.* 1903 [2] 883).
 7) Verbindung (aus 2-Methylchinolin u. Zimmtaldehyd). Sm. 117° (*B.* 36, 4330 *C.* 1904 [1] 449).
- C₁₉H₁₅N₃** 9) 4-Benzylidenamidoazobenzol. Sm. 127° (*A.* 329, 221 *C.* 1903 [2] 1425).
 10) Nitril d. α-[2-Methylphenyl]imido-α-[1-Naphtyl]amidoessigsäure. Sm. 97° (*D.R.P.* 153418 *C.* 1904 [2] 679).
 11) Nitril d. α-[2-Methylphenyl]imido-α-[2-Naphtyl]amidoessigsäure. Sm. 106° (*D.R.P.* 153418 *C.* 1904 [2] 679).
 12) Nitril d. α-[4-Methylphenyl]imido-α-[1-Naphtyl]amidoessigsäure. Sm. 151° (*D.R.P.* 153418 *C.* 1904 [2] 679).
 13) Nitril d. α-[4-Methylphenyl]imido-α-[2-Naphtyl]amidoessigsäure. Sm. 129° (*D.R.P.* 153418 *C.* 1904 [2] 679).
- C₁₉H₁₅Cl** *1) α-Chlortriphenylmethan. + Pyridin, + AlCl₃ (*Am.* 29, 129 *C.* 1903 [1] 714; *B.* 36, 384 *C.* 1903 [1] 716; *Am.* 29, 609 *C.* 1903 [2] 204; *R.* 22, 309 *C.* 1903 [2] 203; *B.* 36, 3925 *C.* 1904 [1] 95).
- C₁₉H₁₅Br** *1) α-Bromtriphenylmethan. + Br₅, + J₅ (*B.* 37, 3543 *C.* 1904 [2] 1738).

$C_{19}H_{16}O$

- *1) α -Oxytriphenylmethan. Sm. 162° (160,5°). + Chinolin, + Phenylhydrazin (B. 35, 4007 C. 1903 [1] 30; B. 36, 406 C. 1903 [1] 585; B. 36, 1010 C. 1903 [1] 1077; B. 36, 1589 C. 1903 [2] 111; B. 36, 2337 C. 1903 [2] 441; B. 36, 3006 C. 1903 [2] 950; Bl. [3] 29, 1131 C. 1904 [1] 284; B. 37, 2107 C. 1904 [2] 107; B. 37, 2755 C. 1904 [2] 707).
- *3) ε -Keto- $\alpha\eta$ -Diphenyl- $\alpha\gamma\zeta$ -Heptatrien. (HCl, SbCl₅), (HCl, SnCl₄) (B. 37, 3671 C. 1904 [2] 1569).
- *4) 2-Keto-1,3-Dibenzyliden-R-Pentamethylen. 2HBr (B. 37, 1653 C. 1904 [1] 1603).
- 7) ε -Keto- $\alpha\eta$ -Diphenyl- $\alpha\gamma\zeta$ -Heptatrien (Benzalcinnamylidenaceton). Sm. 108° (C. 1904 [2] 507).

 $C_{19}H_{16}O_2$

- *5) $\alpha,4$ -Dioxytriphenylmethan + $\frac{1}{2}H_2O$. Sm. 143—144° (165° wasserfrei). + C₆H₆ (B. 36, 2337 C. 1903 [2] 441; B. 36, 2791 C. 1903 [2] 882; B. 36, 3247 C. 1903 [2] 884; B. 36, 3571 C. 1903 [2] 1375).
- 6) Acetat d. 2-Oxy-1-Benzylnaphtalin. Sm. 40° (G. 33 [2] 490 C. 1904 [1] 656).
- 7) Acetat d. 4-Oxy-1-Benzylnaphtalin. Sm. 87—88° (G. 33 [2] 473 C. 1904 [1] 654).
- 8) Verbindung (aus d. Verb. C₁₉H₁₆O₃). Sm. 144,5° (Soc. 83, 304 C. 1903 [1] 879).
- 9) Verbindung (aus 2-Keto-1,4,5-Trioxo-1,3-Dimethyl-4,5-Diphenyl-R-Pentamethylen). Sm. 175° (Soc. 83, 303 C. 1903 [1] 878).

 $C_{19}H_{16}O_3$

- *2) $\alpha,4,4'$ -Trioxytriphenylmethan (Benzaurin) (B. 36, 2791 C. 1903 [2] 882).
- 15) $\alpha,3,4$ -Trioxytriphenylmethan (B. 37, 3329 C. 1904 [2] 1049).
- 16) 2-Keto-1,3-Di[2-Oxybenzyliden]-R-Pentamethylen. Sm. 190° u. Zers. (B. 36, 1502 C. 1903 [1] 1351).
- 17) 2-Keto-1,3-Di[4-Oxybenzyliden]-R-Pentamethylen. Sm. oberh. 300° (B. 36, 1503 C. 1903 [1] 1352).
- 18) Methylenäther d. ε -Keto- α -[3,4-Dioxyphenyl]- ε -[4-Methylphenyl]- $\alpha\gamma$ -Pentadien. Sm. 122° (B. 37, 1700 C. 1904 [1] 1497).
- 19) Acetat d. Verb. C₁₇H₁₄O₃. Sm. 145° (B. 36, 1494 C. 1903 [1] 1350).

 $C_{19}H_{16}O_4$

- 13) Trimethyläther d. Trioxy- $\beta\beta$ -Phenylennaphtylenoxyd (Tr. d. Trioxybrasan). Sm. 244—246° (B. 36, 2199 C. 1903 [2] 381).
- 14) Anhydrid d. $\gamma\delta$ -Diphenyl- β -Methylbutan- $\gamma\delta$ -Oxyd- $\beta\delta$ -Dicarbonsäure. Sm. 158° (Soc. 83, 307 C. 1903 [1] 879).
- 15) Lakton d. β -Oxy- δ -Keto- $\alpha\gamma$ -Diphenylpentan- γ -Carbonsäure. Sm. 91° (A. 333, 231 C. 1904 [2] 1389).
- 16) Dilakton d. $\alpha\varepsilon$ -Dioxy- $\alpha\varepsilon$ -Diphenylpentan- $\beta\gamma$ -Dicarbonsäure (Diphenylheptodilakton). Sm. 149° (A. 331, 187 C. 1904 [1] 1212).

 $C_{19}H_{16}O_5$

- 12) Trimethyläther d. Tetraoxy- $\beta\beta$ -Phenylennaphtylenoxyd (Tr. d. Tetraoxybrasan). Sm. 220° (B. 36, 2198 Anm. C. 1903 [2] 381).
- 13) Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Oxyphenyl]butan-4-Methyläther- β -Ketocarbonsäure. Sm. 116° (A. 333, 269 C. 1904 [2] 1392).
- 14) Monolakton d. $\alpha\varepsilon$ -Dioxy- $\alpha\varepsilon$ -Diphenyl- β -Penten- $\gamma\delta$ -Dicarbonsäure. Ba + H₂O, Ag (A. 331, 178 C. 1904 [1] 1212).
- 15) Acetat d. 1,7-Dioxy-2,6-Dimethyl-9,10-Anthrachinonmonomethyläther. Sm. 195—196° (Soc. 83, 1332 C. 1904 [1] 100).
- 16) 4,6-Diacetat d. 3,4,6-Trioxypheanthren-3-Methyläther. Sm. 162 bis 163° (B. 36, 3081 C. 1903 [2] 955; B. 37, 3501 C. 1904 [2] 1320).
- 17) 3-Acetat d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron-6-Aethyläther. Sm. 133—134° (B. 37, 777 C. 1904 [1] 1156).
- 18) isom. Diacetat d. Chrysarobin. Sm. 193° (Soc. 81, 1579 C. 1903 [1] 34, 167).

 $C_{19}H_{16}O_6$

- *4) Diphenacylmalonsäure. + CHCl₃ (C. 1904 [1] 1259).
- 11) 4-Acetoxy-3,6-Dimethoxyphenanthren-9-Carbonsäure. Sm. 201 bis 203° (B. 35, 4409 C. 1903 [1] 343).
- 12) $\alpha\gamma$ -Lakton d. α -Oxy- γ -Acetoxy- β -Phenyl- α -[3,4-Dioxyphenyl]-propan-3,4-Methylenäther- γ -Carbonsäure. Sm. 116—117° (A. 333, 261 C. 1904 [2] 1391).
- 13) 3-Acetat d. 3,6-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron-2',6-Dimethyläther. Sm. 121—122° (B. 37, 2349 C. 1904 [2] 230).

- C₁₉H₁₆O₆** 14) 3-Acetat d. 3,6-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron-2³,6-Dimethyläther. Sm. 134° (B. 37, 960 C. 1904 [1] 1160).
 15) 3-Acetat d. 3,6-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron-2³,6-Dimethyläther. Sm. 131—132° (B. 37, 783 C. 1904 [1] 1159).
 16) 3-Acetat d. 3,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron-2³,7-Dimethyläther. Sm. 138—139° (B. 37, 4158 C. 1904 [2] 1658).
 17) 3-Acetat d. 3,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron-2³,7-Dimethyläther. Sm. 165° (B. 37, 4160 C. 1904 [2] 1658).
 18) 3-Acetat d. 3,7-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron-2³,7-Dimethyläther. Sm. 193—194° (B. 37, 4162 C. 1904 [2] 1659).
 19) 3-Acetat d. 3,5,7-Trioxo-2-Phenyl-1,4-Benzpyron-5,7-Dimethyläther. Sm. 192—193° (B. 37, 2804 C. 1904 [2] 712).
 20) 3-Acetat d. 3,7,8-Trioxo-2-Phenyl-1,4-Benzpyron-7,8-Dimethyläther. Sm. 185° (B. 37, 2808 C. 1904 [2] 713).
 21) Triacetat d. Verb. C₁₉H₁₆O₉. Sm. oberh. 300° (B. 37, 1179 C. 1904 [1] 1162).
 22) Triacetat d. Verb. C₁₉H₁₆O₉. Sm. noch nicht bei 300° (B. 37, 2737 C. 1904 [2] 542).
 23) isom. Triacetat d. Verb. C₁₉H₁₆O₉. Sm. 270—275° (B. 37, 2737 C. 1904 [2] 542).
- C₁₉H₁₆O₇** *2) Diäthylester d. 2,4,9-Triketo-2,3,4,9-Tetrahydro-ββ-Naphtinden-1,3-Dicarbonsäure. Sm. 159°. Ba (E. Hoyer, Dissert., Berlin 1901).
- C₁₉H₁₆O₈** 3) Carbonsäure. Sm. 195—196° (J. pr. [2] 68, 4 C. 1903 [2] 510).
- C₁₉H₁₆O₉** *3) Tetraacetat d. Purpurogallin. Sm. 184—186° (Soc. 85, 246 C. 1904 [1] 798, 1005).
- C₁₉H₁₆N₂** *2) Diphenylbenzenylamidin. Sm. 145° (Am. 31, 583 C. 1904 [2] 109).
 11) Anhydrid d. α-Oxy-4,4'-Diamidotriphenylmethan. Sm. oberh. 250° (B. 37, 2865 C. 1904 [2] 776).
 12) 4-Imido-1-[4-Amidodiphenyl]methylen-1,4-Dihydrobenzol(p-Amidofuchsonimin). HCl, Pikrat (B. 37, 2863 C. 1904 [2] 776).
 13) 4-[4-Methylphenyl]azobenzol. Sm. 137° (C. 1904 [1] 1491).
 *2) Formazylazobenzol (B. 36, 55 C. 1903 [1] 450).
 12) α-Phenylamido-α-α-Diphenylmethan. Fl. HCl (B. 37, 2693 C. 1904 [2] 519).
 13) 2-Amidotriphenylmethan. Sm. 128—130°. + C₆H₆ (Sm. 94—95°) (B. 37, 3198 C. 1904 [2] 1472).
 14) 2,6-Di[4-Methylphenyl]pyridin. Sm. 162°. (HCl, AuCl₃), Pikrat (B. 36, 852 C. 1903 [1] 976).
- C₁₉H₁₇N₃** *2) α-Phenylimido-α-[α-Phenylhydrazido]-α-Phenylmethan. Sm. 119° (Am. 31, 582 C. 1904 [2] 109).
 *3) α-Phenylimido-α-[β-Phenylhydrazido]-α-Phenylmethan. Sm. 174 bis 175° (Am. 31, 583 C. 1904 [2] 109).
 18) Anhydrid d. α-Oxytri[4-Amidophenyl]methan (B. 36, 4025 C. 1904 [1] 167).
- C₁₉H₁₇N₅** 8) 5-Amido-1,2-Di[4-Amidophenyl]benzimidazol. Sm. 223—224° (B. 37, 1071 C. 1904 [1] 1273).
- C₁₉H₁₈O** 3) ε-Keto-α-ε-Di[4-Methylphenyl]-αγ-Pentadien. Sm. 123—124° (B. 36, 852 C. 1903 [1] 976).
- C₁₉H₁₈O₂** 4) 2-Keto-1,3-Dimethyl-4,5-Diphenyl-2,3-Dihydro-R-Penten. Sm. 122° (Soc. 83, 303 C. 1903 [1] 878).
 8) Säure (aus 2-Keto-1,4,5-Trioxo-1,3-Dimethyl-4,5-Diphenyl-R-Pentamethylen). Sm. 215—216°. Ag (Soc. 83, 301 C. 1903 [1] 879).
 9) Laktone d. α-Oxy-β-Phenyl-α-[4-Isopropylphenyl]propen-γ-Carbonsäure. Sm. 124° (B. 36, 921 C. 1903 [1] 1031; A. 333, 245 C. 1904 [2] 1391).
- C₁₉H₁₈O₃** *10) Dianisalacetone. Sm. 126,5—127°. + HCl, + 2HCl, + HBr, + 1(2)H₂SO₄, + H₃PO₄, + Chloressigsäure (C. 1903 [2] 284; B. 36, 1481 C. 1903 [1] 1349; B. 36, 131 C. 1903 [1] 457).
 12) Trimethyläther d. p-Trioxoäthenylphenanthren. Sm. 122,5°. Pikrat (B. 37, 2789 C. 1904 [2] 716).
 13) γ-Benzoylmethyl-α-Phenyl-α-Buten-δ-Carbonsäure. Sm. 125° (C. 1903 [2] 944).
 14) Laktone d. α-Oxy-γ-Keto-β-Phenyl-α-[4-Isopropylphenyl]propan-γ-Carbonsäure. Sm. 186° (B. 36, 920 C. 1903 [1] 1031; A. 333, 238 C. 1904 [2] 1390).

- $C_{19}H_{18}O_3$ 15) isom. Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Isopropylphenyl]-propan- γ -Carbonsäure. Sm. 198° (B. 36, 920 C. 1903 [1] 1031; A. 333, 251 C. 1904 [2] 1391).
- $C_{19}H_{18}O_4$ *13) Aethyl ester d. $\alpha\delta$ -Diketo- $\alpha\delta$ -Diphenylbutan- β -Carbonsäure. Sm. 69—72° (A. 331, 316 C. 1904 [2] 46).
- 26) Diäthyläther d. 5,6-Dioxy-2-Keto-1-Benzyliden-1,2-Dihydrobenz-furan. Sm. 115° (B. 29, 1889). — *III, 532.
- 27) ϵ -Keto- $\gamma\delta$ -Diphenylhexan- $\gamma\delta$ -Oxyd- β -Carbonsäure. Na, Ag (Soc. 83, 295 C. 1903 [1] 878).
- 28) Lakton d. β -Oxy- δ -Acetoxy- $\alpha\gamma$ -Diphenylbutan- δ -Carbonsäure. Sm. 142° (A. 333, 279 C. 1904 [2] 1393).
- $C_{19}H_{18}O_5$ *10) α -Keto- $\alpha\gamma$ -Diphenylpentan- $\delta\epsilon$ -Dicarbonsäure. Na₂ (A. 326, 362 C. 1903 [1] 1124).
- 16) Methyläther d. Ononetin. Sm. 95—110° (M. 24, 149 C. 1903 [1] 1033).
- 17) $\gamma\delta$ -Diphenyl- β -Methylbutan- $\gamma\delta$ -Oxyd- $\beta\delta$ -Dicarbonsäure. Sm. 171° (184°). Ag₂ (Soc. 83, 306 C. 1903 [1] 879).
- 18) $\alpha\gamma$ -Lakton d. α -Oxy- γ -Acetoxy- β -Phenyl- α -[4-Oxyphenyl]propan-4-Methyläther- γ -Carbonsäure. Sm. 117° (A. 333, 271 C. 1904 [2] 1392).
- 19) Monolakton d. $\alpha\epsilon$ -Dioxy- $\alpha\epsilon$ -Diphenylpentan- $\beta\gamma$ -Dicarbonsäure. Sm. noch nicht bei 160°. Ba, Ag (A. 331, 189 C. 1904 [1] 1212).
- 20) γ^2 -Acetat d. γ -Keto- γ -[2,4-Dioxyphenyl]- α -[3-Oxyphenyl]propen- α^3, γ^4 -Dimethyläther. Sm. 70—71° (B. 37, 4159 C. 1904 [2] 1658).
- 21) 2-Acetat d. γ -Keto- γ -[2,3,4-Trioxypheyl]- α -Phenylpropen-3,4-Dimethyläther. Sm. 110° (B. 36, 4239 C. 1904 [1] 381).
- 22) Diacetat d. 1,3-Dioxy-2,4-Dimethylxanthen. Sm. 117—118° (M. 25, 327 C. 1904 [1] 1495).
- 23) Verbindung (aus d. Verb. C₂₇H₃₀O₁₃). Sm. 180—181° (M. 24, 211 C. 1903 [2] 38).
- $C_{19}H_{18}O_8$ *11) α -Trimethyläther d. Brasilon (B. 36, 1221 C. 1903 [1] 1183).
- *14) β -Trimethyläther d. Brasilon (B. 36, 1220 C. 1903 [1] 1183).
- 17) 2³,2'-Dimethyläther-7-Aethyläther d. 3,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 193—194° (B. 37, 789 C. 1904 [1] 1157).
- 18) $\alpha\epsilon$ -Dioxy- $\alpha\epsilon$ -Diphenyl- β -Penten- $\gamma\delta$ -Dicarbonsäure. Ca, Ba, Ag₂ (A. 331, 179 C. 1904 [1] 1212).
- 19) β -Acetat- $\alpha\gamma$ -Dibenzoat d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 248—251°₂₂ (C. 1903 [1] 134).
- 20) Verbindung (aus Brasilon- β -Trimethyläther). Sm. 174—175° (B. 37, 631 C. 1904 [1] 955; M. 25, 880 C. 1904 [2] 1312).
- $C_{19}H_{18}O_7$ 6) 2³,2',5,7-Tetramethyläther d. 3,5,7-Trioxo-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 197—198° (B. 37, 1404 C. 1904 [1] 1356).
- $C_{19}H_{18}O_8$ 3) Pentamethyläther d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinon. Sm. 192—194° (C. 1904 [2] 709).
- $C_{19}H_{18}O_9$ *3) Leprarin (Leprariasäure). Sm. 155° (J. pr. [2] 68, 69 C. 1903 [2] 514).
- $C_{19}H_{18}N_2$ *2) 4,4'-Diamidotriphenylmethan (B. 37, 2860 C. 1904 [2] 776).
- $C_{19}H_{19}N$ 4) 4-[4-Methylphenyl]-s-Diphenylhydrazin. Sm. 102° (C. 1904 [1] 1491).
- 4) 4-[4-Isopropylbenzyl]isochinolin. Sm. 72,5—73,5°. HCl, (HCl, HgCl₂), (2 HCl, PtCl₄), Pikrat (A. 326, 301 C. 1903 [1] 929).
- $C_{19}H_{20}O_3$ 9) γ -Oxy- β -Phenyl- α -[4-Isopropylphenyl]propen- γ -Carbonsäure. Sm. 136° (B. 36, 921 C. 1903 [1] 1031; A. 333, 246 C. 1904 [2] 1391).
- 10) β -[4-Isopropylbenzoyl]- β -Phenylpropionsäure. Sm. 111° (B. 36, 921 C. 1903 [1] 1031; A. 333, 246 C. 1904 [2] 1391).
- 11) $\alpha\gamma$ -Lakton d. $\alpha\gamma$ -Dioxy- β -Phenyl- γ -[4-Isopropylphenyl]buttersäure. Sm. 169° (B. 36, 920 C. 1903 [1] 1031; A. 333, 242 C. 1904 [2] 1390).
- 12) Aethyl ester d. Säure C₁₇H₁₈O₅. Sm. 48—50° (B. 37, 2247 C. 1904 [2] 328).
- $C_{19}H_{20}O_4$ 21) 2-Keto-1,4,5-Trioxo-1,3-Dimethyl-4,5-Diphenyl-R-Pentamethylen. Sm. 89° (Soc. 83, 295 C. 1903 [1] 878).
- 22) Dibenzylester d. Propan- $\alpha\gamma$ -Dicarbonsäure. Sd. 248°₁₄ (B. 35, 4084 C. 1903 [1] 75).
- 23) Diacetat d. $\beta\beta$ -Di[4-Oxyphenyl]propan. Sm. 78° (C. 1904 [2] 1737).
- 24) Verbindung (aus Trimethylolbisacetophenon). Sm. 105° (B. 36, 1354 C. 1903 [1] 1299).

- $C_{19}H_{20}O_5$ 11) 2³,2⁴-Dimethyläther-7-Aethyläther d. 7-Oxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 110° (B. 37, 788 C. 1904 [1] 1157).
- $C_{19}H_{20}O_6$ 12) Anhydrolaricresinol. Sm. 207° (M. 23, 1026 C. 1903 [1] 288).
- 9) $\alpha^2, \alpha^1, \gamma^2, \gamma^1$ -Tetramethyläther d. γ -Keto- γ -[2,4,6-Trioxyphe-nyl]- α -[2,4-Dioxyphenyl]propen. Sm. 152° (B. 37, 794 C. 1904 [1] 1159).
- 10) $\alpha^3, \alpha^4, \gamma^2, \gamma^1$ -Tetramethyläther d. γ -Keto- γ -[2,4,6-Trioxyphe-nyl]- α -[3,4-Dioxyphenyl]propen. Sm. 157° (B. 37, 793 C. 1904 [1] 1158).
- 11) Tetramethyläther d. 5,7-Dioxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 159–160° (B. 37, 1403 C. 1904 [1] 1355).
- 12) $\alpha\epsilon$ -Dioxy- $\alpha\epsilon$ -Diphenylpentan- $\beta\gamma$ -Dicarbonsäure. Ca, Ag₂ (A. 331, 189 C. 1904 [1] 1213).
- 13) Verbindung (aus d. Verb. $C_{19}H_{18}O_8$) (M. 25, 881 C. 1904 [2] 1312).
- $C_{19}H_{20}O_7$ *3) Barbatinsäure (Rhizonsäure). Na + 2H₂O (J. pr. [2] 68, 12 C. 1903 [2] 510; A. 327, 340 C. 1903 [2] 509).
- $C_{19}H_{20}O_8$ 3) Anhydriacetylpi-*k*ro-*t*in. Sm. oberh. 300° (B. 31, 2973). — *III, 472.
- $C_{19}H_{20}N_2$ 6) Benzot d. Arbutin. Sm. 184,5° (D.R.P. 151036 C. 1904 [1] 1308).
- 7) ϵ -[2-Methylphenyl]imido- α -[2-Methylphenyl]amido- $\alpha\gamma$ -Pentadien. Fl. HCl, HBr (J. pr. [2] 69, 136 C. 1904 [1] 816; J. pr. [2] 70, 42 C. 1904 [2] 1235; A. 333, 324 C. 1904 [2] 1149).
- 8) ϵ -[3-Methylphenyl]imido- α -[3-Methylphenyl]amido- $\alpha\gamma$ -Pentadien. HBr (J. pr. [2] 70, 45 C. 1904 [2] 1235).
- 9) ϵ -[4-Methylphenyl]imido- α -[4-Methylphenyl]amido- $\alpha\gamma$ -Pentadien. Sm. 121°. HCl, HBr (A. 333, 323 C. 1904 [2] 1149; J. pr. [2] 70, 46 C. 1904 [2] 1236).
- $C_{19}H_{20}N_4$ 3) 2,6-Di[Phenylamido]-4-Methyl-5-Aethyl-1,3-Diazin. HCl (B. 36, 1922 C. 1903 [2] 209).
- $C_{19}H_{21}Br$ 1) β -Brom- $\alpha\alpha$ -Diphenyl- α -Hepten. Sm. 74° (B. 37, 1454 C. 1904 [1] 1353).
- $C_{19}H_{22}O_8$ 5) Isoamylester d. α -Oxydiphenylessigsäure. Sd. 230–232°₂₆ (B. 37, 2767 C. 1904 [2] 708).
- $C_{19}H_{22}O_4$ 2) $\alpha\gamma$ -Dioxy- β -Phenyl- γ -[4-Isopropylphenyl]buttersäure. Ag (A. 333, 243 C. 1904 [2] 1390).
- 3) Methylester d. O-Benzoylcamphe-*c*arbonsäure. Sm. 58,5–59,5° (B. 36, 4273 C. 1904 [1] 457).
- $C_{19}H_{22}O_5$ 6) Tri[Methylol]bisacetophenon. Sm. 156° (B. 36, 1352 C. 1903 [1] 1299).
- $C_{19}H_{22}O_6$ *2) Laricresinol (M. 23, 1022 C. 1903 [1] 287).
- *3) isom. Laricresinol. Sm. 104° (M. 23, 1023 C. 1903 [1] 288).
- 6) Tetramethyläther d. Acakatechin. Sm. 152–153° (C. 1904 [2] 439).
- $C_{19}H_{22}O_{10}$ 3) Pentaacetat d. 2,4,6-Trioxo-5-Dioxy-methyl-1,3-Dimethylbenzol. Sm. 152–153° (M. 24, 879 C. 1904 [1] 369).
- $C_{19}H_{22}O_{11}$ C 53,5 — H 5,1 — O 41,3 — M. G. 426.
- $C_{19}H_{24}O$ 1) Saponarin (oder $C_{21}H_{24}O_{12}$). Sm. 231° u. Zers. (C. 1904 [2] 1503).
- 1) α -Oxy- $\alpha\alpha$ -Diphenylheptan. Sd. 200–201°₁₁ (B. 37, 1454 C. 1904 [1] 1353).
- $C_{19}H_{24}O_2$ 5) $\alpha\alpha$ -Di[4-Oxyphenyl]heptan. Sm. 103° (C. 1904 [1] 1650).
- 6) Bornylester d. Zimmtsäure. Sm. 33° (C. r. 136, 238 C. 1903 [1] 584).
- $C_{19}H_{24}O_6$ *3) β_1 -Benzylidenbisacetessigsäureäthylester. Sm. 154° (B. 36, 2186 C. 1903 [2] 569; Soc. 83, 1297 C. 1904 [1] 95).
- *5) isom. Benzylidenbisacetessigsäureäthylester (Soc. 83, 1298 C. 1904 [1] 95).
- $C_{19}H_{25}N_8$ *1) 4-[4-Diäthylamidobenzyliden]amido-1-Dimethylamidobenzol. Sm. 136° (B. 37, 860 C. 1904 [1] 1206).
- $C_{19}H_{26}O$ C 84,4 — H 9,6 — O 5,9 — M. G. 270.
- $C_{19}H_{26}O_8$ 1) Kristallalban. Sm. 227,5–228° (Ar. 241, 485 C. 1903 [2] 1178).
- *4) l-Menthylester d. β -Oxy- α -Phenylakrylsäure. Na, Cu (Soc. 81, 1496 C. 1903 [1] 153).
- *5) l-Menthylester d. Formylphenylessigsäure (Soc. 81, 1494 C. 1903 [1] 153).
- $C_{19}H_{26}O_5$ C 68,3 — H 7,8 — O 23,9 — M. G. 334.
- $C_{19}H_{26}O_2$ 1) Diäthylester d. Dehydrodioxyparasantonsäure (C. 1903 [2] 1447).
- *2) Abietinsäure (Ar. 241, 523 C. 1903 [2] 1179; Soc. 85, 1238 C. 1904 [2] 107, 1308).
- 8) α -Abietinsäure. Sm. 143–155°. Ag (Ar. 241, 507 C. 1903 [2] 1179).
- 9) β -Abietinsäure. Sm. 145–158°. Ag (Ar. 241, 508 C. 1903 [2] 1179).

- $C_{19}H_{28}O_2$ 10) γ -Abietinsäure. Sm. 153—154°. Ag (*Ar.* 241, 512 *C.* 1903 [2] 1179).
 $C_{19}H_{28}O_3$ 4) Aethylester d. l-Aethyläthersantonigen Säure. Sm. 31—32° (*G.* 25, [1] 517). — *II, 978.
 $C_{19}H_{28}O_4$ 5) α -Palmitat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 65° (*C.* 1903 [1] 133).
 $C_{19}H_{28}O_8$ 2) Verbindung (aus Formaldehyd u. Acetylaceton). Sm. 167° (*B.* 36, 2178 *C.* 1903 [2] 372).
 $C_{19}H_{30}O_9$ C 56,7 — H 7,4 — O 35,8 — M. G. 402.
 1) Tetraäthylester d. δ -Ketoheptan- $\alpha\gamma\epsilon\eta$ -Tetracarbonsäure. Sd. 220 bis 230°₁₂ (*B.* 37, 3816 *C.* 1904 [2] 1606).
 $C_{19}H_{30}O_{10}$ 6) Pentaäthylester d. Butan- $\alpha\alpha\beta\beta\delta$ -Pentacarbonsäure. Sd. 215—218°₁₇ (*C.* 1903 [1] 628; *Soc.* 85, 611 *C.* 1904 [1] 1254, 1553).
 $C_{19}H_{32}O$ C 82,6 — H 11,6 — O 5,8 — M. G. 276.
 $C_{19}H_{32}O_4$ 1) Spongosterin. Sm. 119—120° (*H.* 41, 112 *C.* 1904 [1] 996).
 * 1) Lichesterinsäure. Sm. 124,5° (*Ar.* 241, 1 *C.* 1903 [1] 697).
 2) Protolichesterinsäure. Sm. 104—105° (*A.* 324, 39 *C.* 1902 [2] 904; *A.* 327, 353 *C.* 1903 [2] 510).
 $C_{19}H_{32}O_6$ 3) Methylester d. Proto- α -Lichesterinsäure. Sm. 33° (*J. pr.* [2] 68, 31 *C.* 1903 [2] 511).
 $C_{19}H_{34}O_2$ 2) Methylester d. Chaulmoograsäure. Sm. 22°; Sd. 227°₂₀ (*Soc.* 85, 853 *C.* 1904 [2] 348, 604).
 $C_{19}H_{36}O_2$ 5) Methylester d. Dihydrochaulmoograsäure. Sm. 26—27°; Sd. 222 bis 223°₂₀ (*Soc.* 85, 858 *C.* 1904 [2] 348, 604).
 $C_{19}H_{36}O_8$ C 73,1 — H 11,5 — O 15,4 — M. G. 312.
 $C_{19}H_{38}O_2$ 1) Methylester d. Ricinolsäure. Sd. 245°₁₀ (*B.* 36, 783 *C.* 1903 [1] 823).
 * 2) Methylester d. Stearinsäure. Sm. 38° (*B.* 37, 3659 *C.* 1904 [2] 1452).
 * 4) Aethylester d. Margarinsäure. Sm. 28° (*Soc.* 85, 837 *C.* 1904 [2] 509).
 $C_{19}H_{38}O_1$ * 3) α -Palmitat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 72° (*B.* 36, 4342 *C.* 1904 [1] 434).
 $C_{19}H_{38}N_4$ * 1) Amidoguanidinverbindung d. κ -Keto- θ -Methyl- θ -Oktadeken. Pikrat (*B.* 36, 2558 *C.* 1903 [2] 655).

— 19 III —

- $C_{19}H_4O_7Br_{12}$ 1) Verbindung (aus 3,4,5,6-Tetrabrom-1,2-Benzochinon). Sm. 192—193° (*Am.* 31, 96 *C.* 1904 [1] 802).
 $C_{19}H_5O_5Br_8$ 1) Monobenzoat d. Hexabrom-o-Oxybrenzkatechinäther. Sm. 316 bis 318° (*Am.* 30, 524 *C.* 1904 [1] 366).
 $C_{19}H_8O_4Br_2$ 1) 3-Brom-2-[2-Brom-1,3-Diketo-2,3-Dihydro-2-Indenyl]-1,4-Naphtochinon. Sm. 225° (*B.* 35, 3964 *C.* 1903 [1] 33).
 $C_{19}H_8O_5Br_8$ 1) α -Verbindung (aus Benzylalkohol u. 3,4,5,6-Tetrabrom-1,2-Benzochinon). Zers. bei 165—170° (*Am.* 31, 101 *C.* 1904 [1] 802).
 2) β -Verbindung (aus Benzylalkohol u. 3,4,5,6-Tetrabrom-1,2-Benzochinon). Sm. 216—217° (*Am.* 31, 101 *C.* 1904 [1] 802).
 $C_{19}H_9O_2N$ C 80,6 — H 3,2 — O 11,3 — N 4,9 — M. G. 283.
 1) α -Diphenylenpyridindiketon. Sm. 256° (*G.* 32 [2] 331 *C.* 1903 [1] 586; *G.* 33 [1] 423 *C.* 1903 [2] 951).
 $C_{19}H_9O_3N$ C 76,2 — H 3,0 — O 16,1 — N 4,7 — M. G. 299.
 1) Anhydrid d. Methenylbisindandionmonoxim. Sm. 303° u. Zers. (*G.* 33 [2] 156 *C.* 1903 [2] 1272).
 $C_{19}H_9O_4Br$ * 1) 3-Brom-2-[1,3-Diketo-2,3-Dihydro-2-Indenyl]-1,4-Naphtochinon. NH_4 , Na (*B.* 35, 3957 *C.* 1903 [1] 32).
 $C_{19}H_9O_5Br$ 1) Keto-2-[2-Brom-1,3-Diketo-2,3-Dihydro-2-Indenyl]inden-3-Carbonsäure. Sm. 234° (*B.* 35, 3960 *C.* 1903 [1] 32).
 $C_{19}H_9O_5Br_5$ 1) Pentabromformononetin. Sm. 325° (*M.* 25, 578 *C.* 1904 [2] 907).
 $C_{19}H_{10}O_{12}N_8$ C 44,4 — H 1,9 — O 37,3 — N 16,3 — M. G. 514.
 1) Tri[2,4-Dinitrophenyl]methan. Sm. 260° u. Zers. HNO_3 (*B.* 36, 2779 *C.* 1903 [2] 880).
 $C_{19}H_{11}O_2N_3$ C 73,1 — H 3,2 — O 10,3 — N 13,4 — M. G. 312.
 1) Dioxim d. α -Diphenylenpyridindiketon (*G.* 33 [1] 425 *C.* 1903 [2] 951).
 $C_{19}H_{11}O_3N$ 2) Imid d. 2-Benzoylnaphtalin-1,8-Dicarbonsäure. Sm. 252° (*Bl.* [3] 31, 380 *C.* 1904 [1] 1271).
 $C_{19}H_{11}O_3N_3$ 1) Anhydrid d. Methenylbisindandiontrioxim. Sm. 312° u. Zers. (*G.* 33 [2] 158 *C.* 1903 [2] 1273).
 $C_{19}H_{11}O_4N$ 2) Anhydrid d. 2-[α -Oximidobenzyl]naphtalin-4,5-Dicarbonsäure. Sm. 242° u. Zers. (*Bl.* [3] 31, 380 *C.* 1904 [1] 1271).

- $C_{19}H_{12}ON_2$ 2) 2,2'-Dichinolyketon. Sm. 230—240° (*B.* 37, 1239 *C.* 1904 [1] 1362).
- $C_{19}H_{12}OBr_2$ 1) 3,5-Dibrom-4-Keto-1-Diphenylmethylen-1,4-Dihydrobenzol. Sm. 232° (225°) (*B.* 34, 3078; *B.* 36, 3237 *C.* 1903 [2] 883).
C 69,5 — H 3,6 — O 9,8 — N 17,1 — M. G. 328.
- $C_{19}H_{12}O_2N_4$ 1) Homofluorindin-2-Carbonsäure (*B.* 36, 4033 *C.* 1904 [1] 294).
- $C_{19}H_{12}O_2N_2$ 7) 6-[2-Oxy-1-Naphtylazo]-1,2-Benzpyron. Sm. 222° (*Soc.* 85, 1234 *C.* 1904 [2] 1124).
- $C_{19}H_{12}O_2Cl_2$ 2) Diacetat d. 5,6-Dioxy-2-Keto-1-[2-Dichlorbenzyliden]-1,2-Dihydrobenzofuran. Sm. 189—191° u. Zers. (*B.* 29, 2434). — *III, 532
- $C_{19}H_{12}O_2Br_2$ 1) Triacetat d. 2,3,5,2',3',5'-Hexabrom- $\alpha,4,4'$ -Trioxydiphenylmethan. Sm. 204° (*A.* 330, 76 *C.* 1904 [1] 1148).
- $C_{19}H_{18}ON$ 7) 5-[2-Oxyphenyl]akridin. Sm. 289—290° u. Zers. (*Bl.* [3] 31, 1085 *C.* 1904 [2] 1508).
- 8) 5-[4-Oxyphenyl]akridin. Sm. 355—356° u. Zers. (2HCl, PtCl₄), (HCl, AuCl₃), H₂Cr₂O₇, Pikrat (*Bl.* [3] 31, 1091 *C.* 1904 [2] 1509).
- $C_{19}H_{18}OCl$ 1) 9-Phenylxanthoniumchlorid. + FeCl₃, + HgCl₂ (*B.* 37, 2935 *C.* 1904 [2] 1142).
- $C_{19}H_{18}OBr_2$ 1) $\alpha,3,5$ -Tribrom-4-Oxytriphenylmethan. Sm. 130—133° (*B.* 36, 3243 *C.* 1903 [2] 884).
- 2) 9-Phenylxanthoniumtribromid. Sm. 168—170° u. Zers. (*B.* 37, 2936 *C.* 1904 [2] 1142).
- $C_{19}H_{18}O_2N$ 6) o-Methylchinophthalon. Sm. 276,5—277° (279°) (*B.* 36, 3917 *C.* 1904 [1] 97; *B.* 37, 3017 *C.* 1904 [2] 1409).
- 7) p-Methylchinophthalon. Sm. 233° (*B.* 37, 3017 *C.* 1904 [2] 1409).
- 8) o-Methylisochinophthalon. Sm. 235° (*B.* 37, 3017 *C.* 1904 [2] 1409).
- 9) p-Methylisochinophthalon. Sm. 237° (*B.* 37, 3017 *C.* 1904 [2] 1409).
- 10) α -Di-o-Benzylenolpyridin. Sm. 270—275° (*G.* 33 [1] 425 *C.* 1903 [2] 951).
- 11) Imid d. 2-Benzylnaphtalin-4,5-Dicarbonsäure. Sm. 227° (*Bl.* [3] 31, 378 *C.* 1904 [1] 1271; *Bl.* [3] 31, 924 *C.* 1904 [2] 778).
- $C_{19}H_{18}O_2N_3$ 8) p-Phenylazo-5-Oxy-1-Phenylbenzoxazol. Sm. 184° (*B.* 35, 4202 *C.* 1903 [1] 146).
- $C_{19}H_{18}O_2N$ 3) Naphtostyrylphenyllessigsäure. Sm. 186—187° (*B.* 35, 4222 *C.* 1903 [1] 166).
- $C_{19}H_{18}O_2N$ C 68,0 — H 3,9 — O 23,9 — N 4,2 — M. G. 335.
- 1) 1-[α -Oximidobenzyl]naphtalin-4,5-Dicarbonsäure. Sm. 199° (*A.* 327, 98 *C.* 1903 [1] 1228).
- $C_{19}H_{18}O_7N_3$ *1) α -Oxytri[4-Nitrophenyl]methan. Sm. 188—189° (u. 167°). + $\frac{1}{2}C_6H_6$ (*C.* 1904 [1] 461; *B.* 37, 1639 *C.* 1904 [1] 1649; *B.* 37, 3355 *C.* 1904 [2] 1126).
- $C_{19}H_{18}O_8N$ 2) Diacetat d. 5,6-Dioxy-2-Keto-1-[3-Nitrobenzyliden]-1,2-Dihydrobenzofuran. Sm. 218—219° (*B.* 29, 2434). — *III, 532.
- 3) Diacetat d. 5,6-Dioxy-2-Keto-1-[4-Nitrobenzyliden]-1,2-Dihydrobenzofuran. Sm. 219° (*B.* 37, 823 *C.* 1904 [1] 1151).
- $C_{19}H_{18}ClS$ 1) 9-Phenylthioxanthoniumchlorid. + FeCl₃ (*B.* 37, 2937 *C.* 1904 [2] 1143).
- $C_{19}H_{18}Br_2S$ 1) 9-Phenylthioxanthoniumtribromid. Sm. 180° (*B.* 37, 2938 *C.* 1904 [2] 1143).
- $C_{19}H_{14}OS$ 1) 9-Oxy-9-Phenylthioxanthen. Sm. 105—106° (*B.* 37, 2937 *C.* 1904 [2] 1142).
- $C_{19}H_{14}O_2N_2$ 12) Benzoat d. 3-Oxyazobenzol. Sm. 91,5—92° (*B.* 36, 4104 *C.* 1904 [1] 271).
- $C_{19}H_{14}O_2Br_2$ 1) 3,5-Dibrom- $\alpha,4$ -Dioxytriphenylcarbinol. Sm. 138° (*B.* 36, 3242 *C.* 1903 [2] 884).
- $C_{19}H_{14}O_2S_2$ 1) Diphenyläther d. 3,6-Dimerkapto-2-Methyl-1,4-Benzochinon. Sm. 141—142° (*A.* 336, 160 *C.* 1904 [2] 1300).
- $C_{19}H_{14}O_8N_4$ 2) Phenylamid d. 5-Nitroazobenzol-2-Carbonsäure. Sm. 180,5° (*B.* 35, 2717 *C.* 1902 [1] 638; *B.* 36, 4375 *C.* 1904 [1] 446).
- $C_{19}H_{14}O_8S$ 4) Sulton d. α -Oxytriphenylmethan-2-Sulfonsäure. Sm. 210° (*B.* 37, 3267 *C.* 1904 [2] 1031).
- $C_{19}H_{14}O_4Br_2$ 1) Dilakton d. $\gamma\delta$ -Dibrom- $\alpha\epsilon$ -Dioxy- $\alpha\epsilon$ -Diphenylpentan- $\beta\gamma$ -Dicarbonsäure. Sm. 192° (*A.* 331, 185 *C.* 1904 [1] 1212).
- $C_{19}H_{14}O_5N_2$ 2) 2-Keto-1,3-Di[3-Nitrobenzyliden]-R-Pentamethylen. Sm. 209° (*B.* 36, 1504 *C.* 1903 [1] 1352).

- $C_{18}H_{11}O_5N_2$ 3) 2-Keto-1, 3-Di[4-Nitrobenzyliden]-R-Pentamethylen. Sm. 240° u. Zers. (B. 36, 1504 C. 1903 [1] 1352).
- $C_{18}H_{14}O_5S$ *2) Diphenylester d. Benzol-1-Carbonsäure-2-Sulfonsäure (Am. 30, 297 C. 1903 [2] 1121).
- $C_{19}H_{11}O_6Cl_4$ 1) 4,4'-Diacetat d. α -Oxy- β -Keto- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]-äthan- α -Methyläther. Sm. 128—130° (A. 325, 59 C. 1903 [1] 462).
- $C_{19}H_{14}ClBr$ 1) α -Chlor-4-Bromtriphenylmethan. Sm. 111° (B. 37, 1633 C. 1904 [1] 1649).
- $C_{19}H_{14}ClJ$ 1) α -Chlor-4-Jodtriphenylmethan. Sm. 119° (B. 37, 1633 C. 1904 [1] 1649).
- $C_{19}H_{15}ON$ 14) 3-[α -Oximidobenzyl]acenaphten. Sm. 185° (175°) (A. 327, 97 C. 1903 [1] 1228; Bl. [3] 31, 861 C. 1904 [2] 653).
- $C_{19}H_{15}ON_3$ *4) isom. 5-Benzoylamido-2-Methyl- α -oder- β -Naphtimidazol. Sm. 280° u. Zers. (Soc. 77, 1165; Soc. 83, 1199 C. 1903 [2] 1445).
- 6) Phenylamid d. Azobenzol-2-Carbonsäure. Sm. 113° (B. 36, 4376 C. 1904 [1] 446).
- $C_{19}H_{15}O_2N_3$ 20) 4-Phenylamidazobenzol-4²-Carbonsäure. Sm. 221—222° (D.R.P. 146950 C. 1903 [2] 1402; D.R.P. 150469 C. 1904 [1] 1115).
- 21) Benzoat d. 4-Oxy-1-Phenylamidodiazobenzol. Sm. 132,5° (B. 36, 4145 C. 1904 [1] 186).
- $C_{19}H_{15}O_3N$ *2) α -Oxy-4-Nitrotriphenylmethan. Sm. 97—98° (B. 37, 606 C. 1904 [1] 887).
- $C_{19}H_{15}O_4N$ 11) α -Phenyl- α -[1-Naphtyl]amidoessigsäure-8-Carbonsäure. Na₂ (B. 35, 4222 C. 1903 [1] 166).
- 12) Äthylester d. α -Cyan- β -Benzoxyl- β -Phenylakrylsäure. Sm. 78 bis 79° (C. r. 136, 691 C. 1903 [1] 920; Bl. [3] 31, 336 C. 1904 [1] 1135).
- $C_{19}H_{15}O_4Br$ 2) Dilakton d. γ -oder- δ -Brom- $\alpha\epsilon$ -Dioxy- $\alpha\epsilon$ -Diphenylpentan- $\beta\gamma$ -Dicarbonsäure. Sm. 186° (A. 331, 186 C. 1904 [1] 1212).
- $C_{19}H_{15}O_5N$ 3) Oxim d. Dipiperonalaceton? Sm. 159—161° (G. 29 [2] 418). — *III, 192.
- $C_{19}H_{15}O_5N_3$ C 55,8 — H 3,7 — O 23,4 — N 17,1 — M. G. 409.
- 1) 2,4,6-Trinitro-3,5-Di[Phenylamido]-1-Methylbenzol. Sm. 206° (R. 23, 128 C. 1904 [2] 201).
- $C_{19}H_{15}N_2Cl$ 4) α -Chlor- α -Phenylimido- α -Diphenylamidomethan. Sm. 90—92° (B. 37, 964 C. 1904 [1] 1002).
- $C_{19}H_{15}N_2Cl$ 2) α -Phenylhydrazon- α -Phenylazo- α -[2-Chlorphenyl]methan. Sm. 190° (C. 1903 [2] 427).
- $C_{19}H_{15}ON_2$ 19) α -Benzoyl- $\alpha\beta$ -Diphenylhydrazin. Sm. 138—139° (C. r. 136, 1553 C. 1903 [2] 359; B. 36, 139 C. 1903 [1] 507).
- 20) isom. α -Benzoyl- $\alpha\beta$ -Diphenylhydrazin. Sm. 126° (C. r. 136, 1554 C. 1903 [2] 359).
- $C_{19}H_{15}ON_4$ 16) α -Phenylazo- α -Phenylhydrazon- α -[2-Oxyphenyl]methan. Sm. 164 bis 165° (C. 1903 [2] 426).
- 17) 6-Oxy-3-Phenylazo-1-Phenylhydrazonmethylbenzol (C. 1903 [2] 427).
- 18) 6-Acetyl-3-Methyl-1,4-Diphenylbipyrazol. Sm. 174° (B. 36, 527 C. 1903 [1] 642).
- $C_{19}H_{16}OCl_4$ 1) 1,3-Dichlor-2-Keto-1,3-Di[α -Chlorbenzyl]-R-Pentamethylen. Sm. 185° u. Zers. (B. 36, 1500 C. 1903 [1] 1351).
- $C_{19}H_{16}O_2N_2$ 12) 3,5-Dioxy- p -Diphenylazo-1-Methylbenzol. Sm. 229—230° u. Zers. (A. 329, 304 C. 1904 [1] 793).
- 13) α -[1-Phenyl-2,3-Dimethylpyrazolon-[5]-yl-[4]-imid d. Isatin. Sm. 269° u. Zers. Pikrat (B. 36, 4132 C. 1904 [1] 463).
- $C_{19}H_{16}O_2S_2$ 1) 3,6-Diphenyläther d. 3,6-Dimerkapto-2,5-Dioxy-1-Methylbenzol. Sm. 78—80° (A. 336, 161 C. 1904 [2] 1300).
- $C_{19}H_{16}O_3N_4$ 2) 2,4,6-Trioxo-3,5-Diphenylazo-1-Methylbenzol. Sm. 238° (A. 329, 283 C. 1904 [1] 796).
- $C_{19}H_{16}O_4N_4$ 4) 2,4-Dinitro-3,5-Di[Phenylamido]-1-Methylbenzol. Sm. 162° (R. 23, 126 C. 1904 [2] 200).
- $C_{19}H_{16}O_4S$ 1) 4-Oxytriphenylmethan- α -Sulfonsäure. Na + 3½ H₂O (B. 36, 2793 C. 1903 [2] 883).
- $C_{19}H_{16}O_5N_3$ 3) 1-Acetyl-3-Keto-5-[4-Acetylamidophenyl]-2,3-Dihydroindol-2-Carbonsäure? Sm. 292° (C. 1903 [1] 35).

- $C_{19}H_{16}O_5N_4$ C 60,0 — H 4,2 — O 21,1 — N 14,7 — M. G. 380.
 1) **Methyläther d. 2,6-Dinitro-3,5-Di[Phenylamido]-1-Oxybenzol.** Sm. 234° (*B.* 23, 117 *C.* 1904 [2] 205).
- $C_{19}H_{16}O_6N_2$ 3) **α -Aethylester d. 2-Carboxyphenylazobenzoylbrenztraubensäure.** Sm. 158—160° u. Zers. (*B.* 37, 2208 *C.* 1904 [2] 324).
- $C_{19}H_{16}O_6N_6$ C 53,8 — H 3,8 — O 22,6 — N 19,8 — M. G. 424.
 1) **Tri[2-Nitro-4-Amidophenyl]methan.** Sm. noch nicht bei 300° (*B.* 36, 2781 *C.* 1903 [2] 880).
- $C_{19}H_{16}O_6Br_2$ 3) **Tetramethyläther d. 6,8-Dibrom-5,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron.** Sm. 261—262° (*B.* 37, 2626 *C.* 1904 [2] 538).
- $C_{19}H_{16}O_{11}S_2$ 1) **Dipiperonylidenacetonbischydrosulfonsäure.** $K_2 + 2\frac{1}{2}H_2O$, Ba (*B.* 37, 4055 *C.* 1904 [2] 1649).
- $C_{19}H_{16}NCl$ 1) **α -Chlor-2-Amidotriphenylmethan.** HCl (*B.* 37, 3195 *C.* 1904 [2] 1471).
 2) **α -Chlor-4-Amidotriphenylmethan.** HCl (*B.* 37, 601 *C.* 1904 [1] 886).
- $C_{19}H_{17}ON$ *2) **α -Oxy-4-Amidotriphenylmethan.** HCl (*B.* 37, 599 *C.* 1904 [1] 886).
 12) **α -Oxy-2-Amidotriphenylmethan.** Sm. 121,5°. $2HCl + H_2O$, Pikrat (*B.* 37, 3192 *C.* 1904 [2] 1471).
 13) **4-Dimethylamidophenyl-1-Naphtylketon.** Sm. 115° (*D. R. P.* 42853). — *III, 194.
 14) **4-Dimethylamidophenyl-2-Naphtylketon.** Sm. 127° (*D. R. P.* 42853). — *III, 195.
 15) **Triphenylmethylhydroxylamin.** Sm. 124—135° (*B.* 37, 3152 *C.* 1904 [2] 1047).
- $C_{19}H_{17}ON_3$ *1) **β -Diphenylamido- α -Phenylharnstoff.** Sm. 206—207° (*B.* 36, 3157 *C.* 1903 [2] 1057).
 4) **Methyläther d. 2-Oxy-1-Diphenylamidodiazobenzol.** Sm. 30—32° (*C. r.* 139, 571 *C.* 1904 [2] 1497).
 5) **Methyläther d. 4-Oxy-1-Diphenylamidodiazobenzol.** Fl. (*C. r.* 139, 571 *C.* 1904 [2] 1497).
- $C_{19}H_{17}O_2N$ 16) **2-Oxy-1-[α -Acetylamidobenzyl]naphtalin.** Sm. 236—237° (*G.* 33 [1] 5 *C.* 1903 [1] 925).
 17) **4-Oxy-1-[4-Acetylamidobenzyl]naphtalin.** Sm. 124—126° (*M.* 23, 983 *C.* 1903 [1] 288).
- $C_{19}H_{17}O_2N_3$ 14) **Phenylamid d. 4-Aethoxyl-1-Naphtylazoameisensäure.** Sm. 238° (*A.* 334, 198 *C.* 1904 [2] 835).
- $C_{19}H_{17}O_3N$ 12) **Apoprotopapaverin** (*J. pr.* [2] 68, 200 *C.* 1903 [2] 839).
 13) **Anhydrohydrastininumaron.** Sm. 68—70°. ($2HCl$, $PtCl_4$) (*B.* 37, 2743 *C.* 1904 [2] 544).
- $C_{19}H_{17}O_3N_3$ 4) **4-Acetylamid-5-Phenyl-3-[4-Acetylamidophenyl]isoxazol.** Sm. oberh. 250° (*A.* 328, 227 *C.* 1903 [2] 998).
- $C_{19}H_{17}O_4N$ *3) **Aethylester d. 4,5-Diketo-1,2-Diphenyltetrahydropyrrrol-3-Carbonsäure.** Sm. 173° (*C. r.* 139, 211 *C.* 1904 [2] 656).
 6) **2-Benzozat d. 2-Oximido-1,1-Dioxy-1,2-Dihydronaphtalin-1,1-Dimethyläther.** Sm. 109—110° (*B.* 36, 4171 *C.* 1904 [1] 287).
 7) **2-Keto-5,6-Dioxy-1-[4-Dimethylamidocinnamyliden]-1,2-Dihydrobenzofuran.** Sm. 262° (*B.* 37, 826 *C.* 1904 [1] 1152).
 C 62,1 — H 4,6 — O 21,8 — N 11,4 — M. G. 367.
- $C_{19}H_{17}O_5N_3$ 1) **Aethylester d. δ -Phenylazo- γ -Keto- α -[4-Nitrophenyl]- α -Buten- δ -Carbonsäure.** Zers. oberh. 100°. Na (*B.* 36, 1450 *C.* 1903 [1] 1345).
 2) **Aethylester d. 6-Keto-2-Phenyl-4-[3-Nitrophenyl]-3,4,5,6-Tetrahydro-1,3-Diazin-5-Carbonsäure.** Sm. 181—182° (*Soc.* 83, 723 *C.* 1903 [2] 55).
- $C_{19}H_{17}O_6N_3$ 2) **Aethylester d. β -Cyan- α -Di[4-Nitrophenyl]propan- β -Carbonsäure.** Sm. 164—165° (*G.* 32 [2] 358 *C.* 1903 [1] 629).
- $C_{19}H_{17}O_6Br$ 1) **Bromtrimethylbrasilon.** Zers. bei 225° (*B.* 36, 399 *C.* 1903 [1] 587). — *III, 480.
- $C_{19}H_{17}O_6Br_3$ 1) **Tetramethyläther d. 3,6,8-Tribrom-5,7-Dioxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron.** Sm. 200° u. Zers. (*B.* 37, 2626 *C.* 1904 [2] 538).
- $C_{19}H_{17}O_8N$ 2) **α -[4-Methoxyphenyl]- β -[2-Nitro-3-Acetoxy-4-Methoxyphenyl]-akrylsäure.** Sm. 215° (*B.* 35, 4407 *C.* 1903 [1] 342).
- $C_{19}H_{17}N_3S$ 4) **4-Methylphenyläther d. 4'-Merkaptodiazamidobenzol.** Sm. 85° (*J. pr.* [2] 68, 275 *C.* 1903 [2] 994).

- $C_{19}H_{18}ON_2$ *2) α -Oxy-4,4'-Diamidotriphenylmethan. Sm. 173—175° (B. 37, 2861 C. 1904 [2] 776).
- 17) 4'-Phenylamido-4-Oxy-3-Methyldiphenylamin (D.R.P. 150553 C. 1904 [1] 1467).
- 18) 2-Keto-1,3-Di[4-Amidobenzyliden]-R-Pentamethylen (B. 36, 1505 C. 1903 [1] 1352).
- $C_{19}H_{18}O_2N_4$ C 68,2 — H 5,4 — O 9,6 — N 16,8 — M. G. 334.
- $C_{19}H_{18}O_3S_2$ 1) Verbindung (aus Mercaptobenzol u. 2-Methyl-1,4-Benzochinon). Sm. 95—97° (A. 336, 159 C. 1904 [2] 1300).
- $C_{19}H_{18}O_5N_2$ 8) 3-Keto-4-Aethyl-2,6-Diphenyl-2,3,4,5-Tetrahydro-1,2-Diazin-4-Carbonsäure? Sm. 134° (C. 1904 [1] 1259).
- 9) Aethyl ester d. 6-Keto-2,4-Diphenyl-3,4,5,6-Tetrahydro-1,3-Diazin-5-Carbonsäure. Sm. 188° (Soc. 83, 376 C. 1903 [1] 845, 1144).
- $C_{19}H_{18}O_5Br_4$ 2) Dimethyläther d. $\alpha\beta\delta\epsilon$ -Tetrabrom- γ -Keto- $\alpha\epsilon$ -Di[4-Oxyphenyl]-pentan. Sm. 157—159° u. Zers. (B. 36, 1475 C. 1903 [1] 1348).
- $C_{19}H_{18}O_5N_2$ 2) 1,1-Dimethyläther-2-[4-Nitrobenzyl]äther d. 2-Oximido-1,1-Dioxy-1,2-Dihydronaphtalin. Sm. 97—98° (B. 36, 4170 C. 1904 [1] 287).
- $C_{19}H_{18}O_5N_4$ C 59,7 — H 4,7 — O 20,9 — N 14,7 — M. G. 382.
- 1) Aethyläther d. β -Cyan- β -Imidooxymethyl- $\alpha\gamma$ -Di[4-Nitrophenyl]-propan. Sm. 169—170° (G. 32 [2] 363 C. 1903 [1] 629).
- $C_{19}H_{18}O_5Br_2$ 2) 2-Acetat d. $\alpha\beta$ -Dibrom- γ -Keto- γ -[2,3,4-Trioxyphenyl]- α -Phenylpropan-3,4-Dimethyläther. Sm. 140° (B. 36, 4239 C. 1904 [1] 381).
- $C_{19}H_{18}O_6Br_2$ 1) α -Benzoat d. 6-Brom-2,3,4,5-Tetraoxy-1-[β -Brom- α -Oxypropyl]-benzol-3,4-Methylenäther-2,5-Dimethyläther. Sm. 117—118° (C. 1903 [1] 970).
- $C_{19}H_{18}O_6S$ 1) Sulfonsäure (aus Dibenzalacetone). Na + 3H₂O, K + 4H₂O (B. 36, 1491 C. 1903 [1] 1350).
- $C_{19}H_{18}O_8N_2$ C 56,7 — H 4,5 — O 31,8 — N 6,9 — M. G. 402.
- 1) Methylendi[Phenylamidoessigsäurecarbonsäure]. Sm. 206—207° u. Zers. (C. 1903 [2] 835).
- 2) Diacetat d. $\beta\beta$ -Di[p -Nitro-4-Oxyphenyl]propan. Sm. 150° (C. 1904 [2] 1737).
- $C_{19}H_{18}NBr_3$ *1) 2,5,8-Tribrom-1,3,4,6,7,9-Hexamethylakridin? Sm. 287° (Soc. 85, 1202 C. 1904 [2] 1060).
- $C_{19}H_{19}ON$ 7) 4-Aethylamidophenyl-[2-Oxy-1-Naphtyl]methan. Sm. 99—100°. HCl, N₂SO₄ (M. 23, 999 C. 1903 [1] 290).
- 8) 4-Aethylamido-[4-Oxy-1-Naphtyl]methan. Sm. 169°. H₂SO₄ (M. 23, 998 C. 1903 [1] 290).
- 9) ϵ -Oximido- $\alpha\epsilon$ -Di[4-Methylphenyl]- $\alpha\gamma$ -Pentadien. Sm. 178° (B. 36, 852 C. 1903 [1] 976).
- $C_{19}H_{19}ON_3$ *1) α -Oxytri[4-Amidophenyl]methan. (HCl, HgCl₂), HBr + 3H₂O, HJ, HF, HNO₃, H₂SO₄ + 3H₂O (C. 1904 [1] 460; B. 37, 3031 C. 1904 [2] 1010).
- 2) 3-Benzoylimido-1,4,5-Trimethyl-2-Phenyl-2,3-Dihydropyrazol + H₂O. Sm. 146° wasserfrei (B. 36, 3288 C. 1903 [2] 1191).
- $C_{19}H_{19}O_2N$ 11) γ -Keto- β -Benzoyl- α -[4-Dimethylamidophenyl]- α -Buten. Sm. 184° (B. 37, 1744 C. 1904 [1] 1599).
- 12) 4-Aethylamidophenyl-[2,7-Dioxy-1-Naphtyl]methan. Sm. 153 bis 154° (M. 23, 1001 C. 1903 [1] 290).
- 13) 1-Amylamido-9,10-Anthrachinon. Sm. 90° (D.R.P. 144634 C. 1903 [2] 750).
- $C_{19}H_{19}O_3N$ *1) Galipidin. Sm. 113° (182°?) (C. 1903 [2] 1010).
- *2) Acetyl pomorphen (B. 35, 4386 C. 1903 [1] 339).
- 5) Anhydrohydrastininacetophenon. Sm. 74°. (2HCl, PtCl₄) (B. 37, 215 C. 1904 [1] 591).
- 6) Phenylmonamid d. α -Phenyl- α -Buten- δ -Carbonsäure- γ -Methylcarbonsäure. Sm. 142° (B. 36, 2339 C. 1903 [2] 438).
- $C_{19}H_{19}O_3N_3$ 2) Verbindung (aus Dicyanbenzoylessigsäureäthylester). Sm. 155° (A. 332, 151 C. 1904 [2] 192).
- $C_{19}H_{19}O_3Br$ 1) Hydrobromid d. Dianisalacetone. Sm. 165° u. Zers. (B. 36, 3543 C. 1903 [2] 1369).

- $C_{19}H_{19}O_4N$ *1) Bulbocapnin (*Soc.* 83, 625 *C.* 1903 [1] 1364).
 9) Trimethyläther d. Papaverolin (Protopapaverin). Zers. bei 240° (260°). Na, HCl + $5H_2O$, (2HCl, PtCl₄), HBr + $5H_2O$, HJ + $3H_2O$, Oxalat + $5H_2O$, Pikrat, + H_2Cl_2 (*C.* 1903 [1] 844; *J. pr.* [2] 68, 199 *C.* 1903 [2] 838).
- $C_{19}H_{19}O_4N_3$ 10) ϵ -Oximido- $\gamma\delta$ -Diphenylhexan- $\gamma\delta$ -Oxyd- β -Carbonsäure. Sm. 172 bis 173° u. Zers. Ag (*Soc.* 83, 295 *C.* 1903 [1] 878).
 4) δ -Semicarbazon- $\beta\gamma$ -Diphenylpentan- $\beta\gamma$ -Oxyd- α -Carbonsäure. Sm. 198° u. Zers. (*Soc.* 83, 291 *C.* 1903 [1] 877).
 5) Di[Methylphenylamid] d. Acetoximidomalonsäure. Sm. 130° (*Soc.* 83, 42 *C.* 1903 [1] 442).
 6) isom. Di[Methylphenylamid] d. Acetoximidomalonsäure. Sm. 223° (*Soc.* 83, 43 *C.* 1903 [1] 442).
- $C_{19}H_{19}O_5Br$ 1) Trimethyläther d. Brombrasilin. Sm. $181-184^\circ$ (*B.* 21, 3014; 27, 525; 36, 398). — III, 653; *III, 479.
- $C_{19}H_{19}O_6N$ 3) 2',2'-Dimethyläther-7-Aethyläther d. 3-Oximido-7-Oxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. $175-176^\circ$ (*B.* 37, 788 *C.* 1904 [1] 1157).
 4) Oxim d. β -Trimethylbrasilon. Sm. $203-205^\circ$ (*B.* 36, 398 *C.* 1903 [1] 587). — *III, 480.
 5) Verbindung (aus Cotarnin u. Protokatechualdehyd). HCl + H_2O (*B.* 37, 1964 *C.* 1904 [2] 44).
- $C_{19}H_{19}O_6N_3$ 3) Lakton d. γ -Phenylhydrazon- α -Oxy- α -[6-Nitro-3,4-Dimethoxyphenyl]butan-2-Carbonsäure (Phenylhydrazon d. Acetonynitromekonin). Sm. 184° (*B.* 36, 2209 *C.* 1903 [2] 443).
- $C_{19}H_{19}O_7N$ 4) 2',2',5',7-Tetramethyläther d. 3-Oximido-5,7-Dioxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 183° u. Zers. (*B.* 37, 1404 *C.* 1904 [1] 1355).
- $C_{19}H_{19}O_8N$ *1) Nitrooxydihydrotrimethylbrasilon. Sm. $222-225^\circ$ (*B.* 35, 4285 *C.* 1903 [1] 291; *B.* 36, 2321 *C.* 1903 [2] 443).
- $C_{19}H_{19}N_4J$ 1) Jodmethylat d. 3,6-Dimethyl-1,4-Diphenylbipyrazol. Sm. 205° (*B.* 36, 529 *C.* 1903 [1] 642).
- $C_{19}H_{20}ON_2$ 10) 5-Acetyl-6-Methyl-2,4-Diphenyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 147° (*Soc.* 85, 459 *C.* 1904 [1] 1080, 1438).
 11) Benzyläther d. 3,3-Dimethyl-2-[α -Oximidoäthyl] pseudindol. Sm. $77-78^\circ$ (*G.* 32 [2] 430 *C.* 1903 [1] 838).
 12) Dehydrocinchonidin. Sm. 194° . HCl + $2H_2O$, Oxalat + H_2O (*J. pr.* [2] 69, 205 *C.* 1904 [1] 1448).
- $C_{19}H_{20}O_2N_2$ 13) Dimethyläther d. ϵ -2-Oxyphenylimido- α -[2-Oxyphenyl]amido- $\alpha\gamma$ -Pentadien. HBr (*J. pr.* [2] 70, 47 *C.* 1904 [2] 1236).
 14) Dimethyläther d. ϵ -[4-Oxyphenyl]imido- α -[4-Oxyphenyl]amido- $\alpha\gamma$ -Pentadien. HBr (*J. pr.* [2] 70, 48 *C.* 1904 [2] 1236).
 15) 1,2-Dibenzoyl-3,5-Dimethyltetrahydropyrazol. Sm. $204,5^\circ$ (*B.* 36, 223 *C.* 1903 [1] 522).
- $C_{19}H_{20}O_3N_4$ 3) Benzylidenhydrazid d. α -Benzoylamidoacetylamidopropionsäure. Sm. 216° (*J. pr.* [2] 70, 119 *C.* 1904 [2] 1037).
 4) Benzylidenhydrazid d. α -Benzoylamidoacetylamidopropionylamidoessigsäure. Sm. 226° (*J. pr.* [2] 70, 154 *C.* 1904 [2] 1395).
- $C_{19}H_{20}O_3Cl_2$ 1) Dianisalacetondihydrochlorid. Sm. 123° (*B.* 36, 1474 *C.* 1903 [1] 1348).
- $C_{19}H_{20}O_3Br_2$ 1) Dihydrobromid d. Dianisalacetone (*B.* 36, 3543 *C.* 1903 [2] 1369).
 2) $\beta\gamma$ -Dibrom- α -Oxy- β -Phenyl- γ -[4-Isopropylphenyl]buttersäure. Zers. bei $166-173^\circ$ (*A.* 333, 247 *C.* 1904 [2] 1391).
- $C_{19}H_{20}O_3S$ 1) γ -[4-Methylphenyl]sulfon- ϵ -Keto- α -Phenyl- α -Hexen. Sm. $125-126^\circ$ (*Am.* 31, 183 *C.* 1904 [1] 877).
- $C_{19}H_{20}O_4N_2$ 7) α -Phenylhydrazon- α -Phenyl- β -Aethylpropan- $\gamma\gamma$ -Dicarbonsäure. Sm. 162° u. Zers. Diphenylhydrazinsalz (*C.* 1904 [1] 1258).
- $C_{19}H_{20}O_5N_2$ 6) Diacetylderivat d. Verb. $C_{15}H_{16}O_3N_2$. Sm. $211-212^\circ$ (*J. pr.* [2] 70, 373 *C.* 1904 [2] 1566).
- $C_{19}H_{20}O_6N_2$ 3) Diäthylester d. α -Phtalylamido- δ -Cyanbutan- $\alpha\alpha$ -Dicarbonsäure. Sm. 91° (*C.* 1903 [2] 33).
- $C_{19}H_{20}O_7S_2$ 1) Cinnamylidenbenzylidenacetonebischydrosulfonsäure. K_2 + $3H_2O$ (*B.* 37, 4053 *C.* 1904 [2] 1649).

- $C_{19}H_{20}O_8N_4$ C 52,8 — H 4,6 — O 29,6 — N 13,0 — M. G. 432.
 1) Di[β -Nitro-4-Methoxyphenylamid] d. Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 202° (*G.* 34 [2] 266 *C.* 1904 [2] 1453).
- $C_{19}H_{20}O_9N_2$ C 54,3 — H 4,8 — O 34,3 — N 6,6 — M. G. 420.
 1) Oxim d. Nitrotrimethylbrasilon. Sm. 159—162° (*B.* 36, 2321 *C.* 1903 [2] 443).
- $C_{19}H_{21}ON$ 3) d-1-[β -Phenylisobutryl]amido-2,3-Dihydroinden. Sm. 148—149° (*Soc.* 85, 449 *C.* 1904 [1] 1445).
 4) dl-1-[β -Phenylisobutryl]amido-2,3-Dihydroinden. Sm. 110—111° (*Soc.* 85, 444 *C.* 1904 [1] 954, 1445).
 5) isom. dl-1-[β -Phenylisobutryl]amido-2,3-Dihydroinden. Sm. 119,5° (*Soc.* 85, 445 *C.* 1904 [1] 954, 1445).
 6) 1-Naphtylamid d. α -Oktin- α -Carbonsäure. Sm. 99—100° (*C. r.* 136, 554 *C.* 1903 [1] 825).
- $C_{19}H_{21}O_2N$ 4) α -[3-Methylphenyl]amido- β -Acetyl- γ -Keto- α -Phenylbutan. Sm. 99 bis 100° (*Soc.* 85, 1174 *C.* 1904 [2] 1215).
 5) α -[4-Methylphenyl]amido- β -Acetyl- γ -Keto- α -Phenylbutan. Sm. 96° (*Soc.* 85, 1174 *C.* 1904 [2] 1215).
 6) 3 Methyläther-4-Aethyläther d. 3,5-Dimethyl-2-[3,4-Dioxyphenyl]-indol. Sm. 174° (*B.* 37, 874 *C.* 1904 [1] 1154).
 7) Dimethylapomorphin. + C_6H_6O (*B.* 35, 4388 *C.* 1903 [1] 339).
- $C_{19}H_{21}O_2N_3$ 3) β -Semicarbazon- $\gamma\delta$ -Diphenylhexan- $\gamma\delta$ -Oxyd. Sm. 204° (*Soc.* 83, 297 *C.* 1903 [1] 878).
- $C_{19}H_{21}O_3N$ *6) Methyläther d. Thebenin. HCl, H_2SO_4 (*B.* 36, 3082 *C.* 1903 [2] 955; *B.* 37, 2785 *C.* 1904 [2] 716).
 *7) Aethylester d. α -Phenylamido- γ -Oxy- α -Phenyl- β -Buten- β -Carbon-säure. Sm. 103—104° (107—108°) (*B.* 35, 3947 *C.* 1903 [1] 18; *B.* 35, 4326 *C.* 1903 [1] 283; *B.* 35, 4439 *C.* 1903 [1] 283; *B.* 36, 937 *C.* 1903 [1] 1018).
 *8) Aethylester d. α -Phenylamido- γ -Keto- α -Phenylbutan- β -Carbon-säure. Sm. 78° (80°) (*B.* 35, 3947 *C.* 1903 [1] 18; *B.* 35, 4326 *C.* 1903 [1] 283; *B.* 35, 4439 *C.* 1903 [1] 283; *B.* 36, 937 *C.* 1903 [1] 1018; *Soc.* 83, 1295 *C.* 1904 [1] 94).
 15) Aethylester d. α -Phenylamido- γ -Keto- α -Phenylbutan- β -Carbon-säure. Sm. 103° (*Soc.* 85, 1177 *C.* 1904 [2] 1216).
- $C_{19}H_{21}O_3N_3$ C 67,3 — H 6,2 — O 14,1 — N 12,4 — M. G. 339.
 1) Phenylamid d. β -Benzoylamidoacetylamidobuttersäure. Sm. 206° (*J. pr.* [2] 70, 212 *C.* 1904 [2] 1460).
 2) Di[Methylphenylamid] d. Oximidomalonäthyläthersäure. Sm. 138° (*Soc.* 83, 43 *C.* 1903 [1] 442).
 3) isom. Di[Methylphenylamid] d. Oximidomalonäthyläthersäure. Sm. 168° (*Soc.* 83, 43 *C.* 1903 [1] 442).
- $C_{19}H_{21}O_4N_3$ C 64,2 — H 5,9 — O 18,0 — N 11,8 — M. G. 355.
 1) Antipyrinorthoform (*A.* 325, 317 *C.* 1903 [1] 769).
 2) isom. Antipyrinorthoform. Sm. 93° (*A.* 325, 318 *C.* 1903 [1] 769).
- $C_{19}H_{21}NCl_2$ 1) 5,10-Dichlor-1,3,4,6,7,9-Hexamethyl-5,10-Dihydroakridin. Sm. 216° (*Soc.* 85, 1202 *C.* 1904 [2] 1060).
- $C_{19}H_{21}N_3Br$ 2) Brommethylester d. 2-[Methylphenylamido]-1-Phenyl-1,2-Dihydrobenzol. Sm. 139° (*J. pr.* [2] 69, 134 *C.* 1904 [1] 816).
- $C_{19}H_{22}ON_2$ *3) Cinchonin (*C. r.* 136, 181 *C.* 1903 [1] 525; *Soc.* 83, 624 *C.* 1903 [1] 1364; *M.* 24, 313 *C.* 1903 [2] 578).
 *8) α -Isocinchonin (*M.* 24, 313 *C.* 1903 [2] 578).
 *9) β -Isocinchonin (*M.* 24, 313 *C.* 1903 [2] 578).
 *10) Allocinchonin (*M.* 24, 313 *C.* 1903 [2] 578).
 *20) Cinchonidin (*M.* 24, 669 *C.* 1903 [2] 1283).
 *22) Cinchonidin (*C. r.* 136, 184 *C.* 1903 [1] 525).
 *33) α -i-Pseudocinchonin (*M.* 24, 332 *C.* 1903 [2] 578).
 *34) β -i-Pseudocinchonin (*M.* 24, 299 *C.* 1903 [2] 297; *M.* 24, 332 *C.* 1903 [2] 578; *M.* 24, 675 *C.* 1903 [2] 1284).
- $C_{19}H_{22}OS$ 1) Phenyläther d. γ -Keto- ϵ -Merkapto- ϵ -Phenyl- β -Methylpentan. Sm. 86—88° (*B.* 37, 507 *C.* 1904 [1] 883).
- $C_{19}H_{22}O_2N_2$ *4) $\alpha\epsilon$ -Di[Benzoylamido]pentan. Sm. 135° (*B.* 37, 3588 *C.* 1904 [2] 1407).
 *22) Phenylamid d. β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Sm. 197—198° (*C.* 1903 [2] 288).

- $C_{19}H_{22}O_2N_2$ *28) Di[Phenylamid] d. Pentan- $\alpha\delta$ -Dicarbonsäure (C. 1903 [2] 289).
- 29) Äthyläther d. Benzoylimido-2,4,5-Trimethylphenylamidooxymethan. Sm. 79—80° (Am. 32, 368 C. 1904 [2] 1507).
- 30) isom. Phenylamid d. β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Sm. 203 bis 204° (C. 1903 [2] 288).
- 31) Phenylamid d. β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 147° (C. r. 138, 580 C. 1904 [1] 925).
- $C_{19}H_{22}O_3N_2$ *1) Dioxycinchonidin? (J. pr. [2] 69, 196 C. 1904 [1] 1448).
- $C_{19}H_{21}O_5S$ 1) γ -Keto- ϵ -Phenylsulfon- ϵ -Phenyl- β -Methylpentan. Sm. 161—164° (B. 37, 507 C. 1904 [1] 883).
- $C_{19}H_{22}O_4N_2$ 11) $\beta\beta$ -Di[2-Acetylamido-4-Oxyphenyl]propan (C. 1904 [2] 1737).
- 12) Di[4-Methoxyphenylamid] d. Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 241 bis 242° (G. 34 [2] 264 C. 1904 [2] 1453).
- $C_{19}H_{22}O_4N_4$ 2) Phenylhydrazon d. Glyazindihydotetramethylidimalonsäure-methylester- ϵ -Lakton. Sm. 270° (Soc. 83, 1259 C. 1903 [2] 1423).
- $C_{19}H_{22}O_5N_2$ C 63,7 — H 6,1 — O 22,4 — N 7,8 — M. G. 358.
- 1) Diäthylester d. 1-Benzoylamido-2, 5-Dimethylpyrrol-3, 4-Dicarbonsäure. Sm. 123—124° (B. 35, 4315 C. 1903 [1] 336).
- 2) Verbindung (aus uns-Phenylbenzylhydrazin u. Rhamnose). Sm. 50—60° (Soc. 83, 1289 C. 1904 [1] 86).
- $C_{19}H_{22}N_3J$ 1) 2-Jodäthylat d. 5-Methylphenylamido-3-Methyl-1-Phenylpyrazol. Sm. 184—185° (B. 36, 3277 C. 1903 [2] 1189).
- $C_{19}H_{28}ON$ 6) α -Phenyläthylamid d. α -Phenylbutan- β -Carbonsäure. Sm. 112° (B. 37, 2703 C. 1904 [2] 518).
- 7) isom. α -Phenyläthylamid d. α -Phenylbutan- β -Carbonsäure. Sm. 85—87° (B. 37, 2703 C. 1904 [2] 518).
- $C_{19}H_{28}O_2N$ 8) Äthyläther d. 4-Diäthylamido-3'-Oxydiphenylketon. Sm. 104° (D.R.P. 65952). — *III, 153.
- 9) Benzozat d. γ -Dimethylamido- β -Oxy- α -Phenyl- β -Methylpropan. HCl (C. r. 138, 768 C. 1904 [1] 1196).
- 10) Phenylamidoformiat d. γ -Oxy- α -Phenyl- γ -Methylbutan. Sm. 94—95° (B. 37, 2317 C. 1904 [2] 217).
- 11) Phenylamidoformiat d. γ -Oxy- γ -Benzylpentan. Sm. 98° (B. 37, 1724 C. 1904 [1] 1515).
- $C_{19}H_{23}O_3N$ 12) Äthylmorphin (D.R.P. 102634, 107225, 108075). — *III, 669.
- $C_{19}H_{23}O_4N$ *4) Cocamin (oder $C_{19}H_{23}O_4N$) (J. pr. [2] 66, 418 C. 1903 [1] 528).
- $C_{19}H_{23}O_8N$ *2) Diäthylester d. 5-Keto-1-Oxy-1-Methyl-3-[3-Nitrophenyl]hexahydrobenzol-2, 4-Dicarbonsäure. Sm. 146° (148°) (Soc. 83, 719 C. 1903 [2] 54; A. 332, 35 C. 1904 [1] 1566).
- *3) Diäthylester d. 5-Keto-1-Oxy-1-Methyl-3-[4-Nitrophenyl]hexahydrobenzol-2,4-Dicarbonsäure. Sm. 164° (A. 332, 31 C. 1904 [1] 1566).
- 4) Diäthylester d. isom. 5-Keto-1-Oxy-1-Methyl-3-[4-Nitrophenyl]hexahydrobenzol-2,4-Dicarbonsäure. Sm. 152—153° (A. 332, 32 C. 1904 [1] 1566).
- 5) Diäthylester d. 3,5-Dioxy-3-Methyl-1-[3-Nitrophenyl]-1,2,3,4-Tetrahydrobenzol-2,6-Dicarbonsäure. Fl. Na + C_2H_6O (A. 332, 36 C. 1904 [1] 1566).
- 6) Diäthylester d. 3,5-Dioxy-3-Methyl-1-[4-Nitrophenyl]-1,2,3,4-Tetrahydrobenzol-2,6-Dicarbonsäure. Sm. 129—130°. Na (A. 332, 31 C. 1904 [1] 1566).
- 7) Diäthylester d. isom. 3,5-Dioxy-3-Methyl-1-[4-Nitrophenyl]-1,2,3,4-Tetrahydrobenzol-2,6-Dicarbonsäure. Sm. 130—135° (A. 332, 33 C. 1904 [1] 1566).
- $C_{19}H_{24}ON_2$ *8) Cinchonamin (C. r. 136, 185 C. 1903 [1] 525).
- 18) α -[d-sec. Butyl]- $\beta\beta$ -Dibenzylharnstoff. Sm. 69° (Ar. 242, 71 C. 1904 [1] 999).
- 19) 4-Dimethylamido-4'-Diäthylamidodiphenylketon. Sm. 94° (D.R.P. 44077). — *III, 149.
- $C_{19}H_{24}O_4N_2$ 4) Phenylbenzylhydrazon d. Fukose. Sm. 172—173° (B. 37, 307 C. 1904 [1] 307).
- $C_{19}H_{24}O_4N_4$ 4) Phenylhydrazon-Methylphenylhydrazon d. d-Glykose. Sm. 192° (192—195°) (B. 37, 3852 C. 1904 [2] 1711; B. 37, 3363 C. 1904 [2] 1210).

- $C_{19}H_{24}O_4N_4$ 5) isom. Phenylhydrazon - Methylphenylhydrazon d. d - Glykose. Sm. 205° (B. 37, 3852 C. 1904 [2] 1711).
- $C_{19}H_{24}O_4S_2$ 2) α -Isoamylsulfon- α -Benzylsulfon- α -Phenylmethan. Sm. 145° (B. 36, 301 C. 1903 [1] 500).
- $C_{19}H_{24}O_5N_2$ 4) Phenylbenzylhydrazon d. d-Galaktose. Sm. 189—190° (B. 37, 305 C. 1904 [1] 649).
- $C_{19}H_{24}O_6N_6$ 5) Verbindung (aus 2-Keto-1,4,5-Trioxo-1,3-Dimethyl-4,5-Diphenyl-R-Pentamethylen). Sm. 185° u. Zers. (Soc. 83, 301 C. 1903 [1] 878). C 49,1 — H 5,2 — O 27,6 — N 18,1 — M. G. 464.
- 1) Benzoylpenta[Amidoacetyl]amidoessigsäure. Sm. 280—285° (268° u. Zers.). Ag (*J. pr.* [2] 24, 240; [2] 26, 197; B. 16, 756; B. 37, 1279 C. 1904 [1] 1335; *J. pr.* [2] 70, 88, 99 C. 1904 [2] 1034, 1035). — II, 1182, 1190.
- $C_{19}H_{24}NJ$ 1) Aethylallylbenzyl-4-Methylphenylammoniumjodid. Zers. bei 114 bis 116° (B. 37, 2725 C. 1904 [2] 592).
- $C_{19}H_{24}N_2S$ 9) α -[d - sec. Butyl]- $\beta\beta$ -Dibenzylthioharnstoff. Sm. 56° (Ar. 242, 62 C. 1904 [1] 998).
- $C_{19}H_{26}ON$ 1) Aethylallylbenzyl-4-Methylphenylammoniumhydroxyd. Salze siehe (B. 37, 2726 C. 1904 [2] 592). C 72,4 — H 7,9 — O 15,2 — N 4,4 — M. G. 315.
- $C_{19}H_{26}O_6N$ 1) Dihydromethylmorphimethin (B. 32, 1048). — *III, 672.
- $C_{19}H_{26}O_4N$ 4) Aethylester d. β -Methylamido- ζ -Keto- γ -Acetyl- δ -Phenyl- β -Hepten- ϵ -Carbonsäure. Sm. 198° (B. 36, 2186 C. 1903 [2] 569).
- $C_{19}H_{26}O_7N$ 1) C 60,1 — H 6,6 — O 29,5 — N 3,7 — M. G. 379.
- 1) Diäthylester d. Anhydrocotarninmalonsäure. Sm. 73° (B. 37, 2740 C. 1904 [2] 544).
- $C_{19}H_{26}O_7N_6$ 1) C 52,4 — H 5,7 — O 25,7 — N 16,1 — M. G. 435.
- 1) Aethylester d. Benzoyltetra[Amidoacetyl]amidoessigsäure. Sm. 256—257° u. Zers. (244—246°) (B. 37, 1299 C. 1904 [1] 1337; *J. pr.* [2] 70, 96 C. 1904 [2] 1035).
- $C_{19}H_{26}N_2Br$ *5) isom 4-Bromphenylhydrazon d. β -Jonon. Sm. 166—167° (C. 1904 [1] 281).
- 6) 4-Bromphenylhydrazon d. Camphenilidenaceton. Sm. 114—115° (D. R. P. 138211 C. 1903 [1] 269). C 56,7 — H 6,5 — O 15,9 — N 20,9 — M. G. 402.
- $C_{19}H_{26}O_4N_6$ 1) Di[Isopropylidenhydrazid] d. α -Benzoylamidoacetylamidöathan- $\alpha\beta$ -Dicarbonsäure. Sm. 183° u. Zers. (*J. pr.* [2] 70, 176 C. 1904 [2] 1396). C 58,5 — H 6,7 — O 20,5 — N 14,3 — M. G. 390.
- $C_{19}H_{26}O_6N_4$ 1) Aethylester d. β -[β -Benzoylamidoacetylamidobutryl]hydrazon-buttersäure. Sm. 142° (*J. pr.* [2] 70, 210 C. 1904 [2] 1460).
- $C_{19}H_{26}NJ$ 1) Methyl-1-Amylphenylbenzylammoniumjodid (C. 1904 [2] 952).
- 2) Methylisobutylidibenzylammoniumjodid. Sm. 174—175° (Soc. 83, 1412 C. 1904 [1] 438).
- $C_{19}H_{27}O_2Br_3$ 1) Laurat d. 3,5-Dibrom-2-Oxy-1-Brommethylbenzol. Sm. 60—61° (A. 332, 201 C. 1904 [2] 211).
- $C_{19}H_{27}O_5N_3$ 1) C 60,5 — H 7,1 — O 21,2 — N 11,1 — M. G. 377.
- 1) Aethylester d. β -[β -Benzoylamidoacetylamidobutryl]amidobuttersäure. Sm. 103° (*J. pr.* [2] 70, 220 C. 1904 [2] 1461).
- $C_{19}H_{27}O_5Cl$ 1) Chlorhydrin d. Dehydrodioxyparasantonsäurediäthylester. Sm. 170—171° (C. 1903 [2] 1447).
- $C_{19}H_{26}O_6S_2$ 1) Diäthylester d. 4-Methyl-1,3-Phenylendi[α -Sulfonbuttersäure]. Fl. (*J. pr.* [2] 68, 338 C. 1903 [2] 1172).
- $C_{19}H_{29}O_4N$ 2) Aethyloxyhydrat d. Atropin. Nitrat, Sulfat (D. R. P. 138443 C. 1903 [1] 427).
- $C_{19}H_{30}O_9N_6$ 1) C 46,9 — H 6,2 — O 29,6 — N 17,3 — M. G. 486.
- 1) Leimpepton (C. 1903 [1] 1144).
- 2) β -Trypsinglutinpepton (H. 38, 258 C. 1903 [2] 210; H. 38, 320 C. 1903 [2] 211).
- $C_{19}H_{31}ON$ *1) 2-Methylphenylamid d. Laurinsäure. Sm. 81—82° (Bl. [3] 29, 1121 C. 1904 [1] 259).
- 2) 4-Methylphenylamid d. Laurinsäure. Sm. 82—83° (Bl. [3] 29, 1122 C. 1904 [1] 259).

- $C_{19}H_{31}O_2N$ C 74,7 — H 10,2 — O 10,5 — N 4,6 — M. G. 305.
 1) 4-Methylphenylamid d. α -Oxyundekan- α -Carbonsäure. Sm. 100°
 (Bl. [3] 29, 1127 C. 1904 [1] 261).
 $C_{19}H_{37}O_4N_3$ " C 61,4 — H 10,0 — O 17,2 — N 11,3 — M. G. 371.
 1) Semicarbazonoxytsteearinsäure. Sm. 134—135° (B. 36, 2659 C. 1903 [2] 826).

— 19 IV —

- $C_{19}H_{10}O_4NBr$ 1) Monooxim d. 3-Brom-2-[1,3-Diketo-2,3-Dihydro-2-Indenyl]-1,4-Naphtochinon. Sm. 233° (B. 35, 3958 C. 1903 [1] 32).
 $C_{19}H_{10}O_6N_3S$ 1) 2,4,6-Trinitrophenyläther d. 5-Merkaptoakridin. Sm. 233° u. Zers. (J. pr. [2] 68, 81 C. 1903 [2] 445).
 $C_{19}H_{10}O_6N_4Se$ 1) 2,4,6-Trinitrophenyläther d. 5-Merkaptoakridin. Zers. bei 198°. Pikrat (J. pr. [2] 68, 94 C. 1903 [2] 446).
 $C_{19}H_{11}O_4N_3S$ 1) 2,4-Dinitrophenyläther d. 5-Merkaptoakridin. Sm. 290° u. Zers. (2HCl, PtCl₄), Pikrat (J. pr. [2] 68, 83 C. 1903 [2] 445).
 $C_{19}H_{11}O_4N_4Se$ 1) 2,4-Dinitrophenyläther d. 5-Merkaptoakridin. Sm. 273°. (2HCl, PtCl₄), Pikrat (J. pr. [2] 68, 96 C. 1903 [2] 446).
 $C_{19}H_{11}O_{11}N_3S$ 1) Di[2-Nitrophenylester] d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 164° (Am. 30, 381 C. 1904 [1] 275).
 2) Di[4-Nitrophenylester] d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 152° (Am. 30, 381 C. 1904 [1] 275).
 $C_{19}H_{12}O_2NBr$ 2) Brom-o-Methylchinophthalon (B. 36, 3918 C. 1904 [1] 98).
 $C_{19}H_{12}O_2N_3Br$ 1) 6-[4-Brom-1-Amido-2-Naphtyl]azo-1,2-Benzpyron. Sm. 240—241° u. Zers. (Soc. 85, 751 C. 1904 [2] 448).
 $C_{19}H_{12}O_6N_3Cl$ 2) α -Chlor-4,4',4''-Trinitrotriphenylmethan (B. 37, 1639 C. 1904 [1] 1649).
 $C_{19}H_{12}O_6N_6Cl$ 1) α -Imidobenzyl-4-Chlorphenyl-2,4,6-Trinitrophenylamin. Sm. 171° u. Zers. (J. pr. [2] 67, 468 C. 1903 [1] 1422).
 $C_{19}H_{13}O_2NBr_4$ 2) o-Methylchinophthalontetrabromid (B. 36, 3918 C. 1904 [1] 98).
 $C_{19}H_{13}O_4NS$ 1) 5-[4-Oxyphenyl]akridin-P-Sulfonsäure. Na (Bl. [3] 31, 1093 C. 1904 [2] 1509).
 $C_{19}H_{13}O_7NS$ *1) Diphenylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 118—119° (Am. 30, 374 C. 1904 [1] 275).
 $C_{19}H_{13}O_{11}N_3S$ 1) 4-Methylbenzolsulfonat d. 2',4',P-Tetranitro-4-Oxydiphenylamin. Sm. 189,5° (B. 37, 1732 C. 1904 [1] 1521).
 $C_{19}H_{14}O_2NCl$ 1) α -Chlor-4-Nitrotriphenylmethan. Sm. 92—93° (B. 37, 606 C. 1904 [1] 887).
 $C_{19}H_{14}O_5N_2Br_4$ 1) 1,3-Dibrom-2-Keto-1,3-Di[α -Brom-3-Nitrobenzyl]-R-Pentamethylen. Sm. 178° u. Zers. (B. 36, 1504 C. 1903 [1] 1352).
 $C_{19}H_{15}O_2NBr_2$ 1) N-Acetyl-3,5-Dibrom-2-Oxybenzyl-2-Naphtylamin. Sm. 137° (A. 332, 187 C. 1904 [2] 210).
 $C_{19}H_{15}O_3NS$ *4) Benzoylphenylamid d. Benzolsulfonsäure. Sm. 104° (und 114°) (C. r. 137, 714 C. 1903 [2] 1428; Bl. [3] 31, 623 C. 1904 [2] 97).
 6) 4-Phenylsulfonamidodiphenylketon. Sm. 156° (Soc. 85, 397 C. 1904 [1] 1404).
 $C_{19}H_{15}O_4N_3S$ 1) Phenylamid d. 3-Phenylsulfon-4-Oxyphenylazoameisensäure. Sm. 195—196° u. Zers. (A. 334, 179 C. 1904 [2] 834).
 $C_{19}H_{15}O_7N_3S$ 1) 4-Methylbenzolsulfonat d. 2',4'-Dinitro-4-Oxydiphenylamin. Sm. 178,5 (B. 37, 1731 C. 1904 [1] 1521).
 $C_{19}H_{16}O_2N_2S$ 2) S-4-Methylphenyläther d. 4'-Merkapto-2,4-Dioxyazobenzol. (J. pr. [2] 68, 274 C. 1903 [2] 994).
 $C_{19}H_{16}O_2N_3Br$ 8-Brom-5-[6-Cumarylazo]amido-1,2,3,4-Tetrahydronaphtalin. Zers. bei 165—168° (Soc. 85, 750 C. 1904 [2] 448).
 $C_{19}H_{16}O_2N_4S$ 1) 4-Methylphenyläther d. 4-Nitro-4'-Merkaptodiazamidobenzol. Sm. 166° u. Zers. (J. pr. [2] 68, 276 C. 1903 [2] 994).
 $C_{19}H_{16}O_3N_2Br_2$ 1) P-Dibrom-P-Di[Phenylamido]-1,2-Benzochinonmonomethylhemiacetal. Sm. 144—145° (B. 35, 3854 C. 1903 [1] 26).
 $C_{19}H_{16}O_3N_2S$ *2) s-Di[Phenylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure (Am. 30, 273 C. 1903 [2] 1120).
 $C_{19}H_{16}O_4N_4S$ 2) α -Phenylhydrazon- α -[4-Sulfophenyl]azo- α -2-Oxyphenylmethan. K (C. 1903 [2] 427).
 $C_{19}H_{17}O_4N_3S$ 1) 3-Nitrobenzylidendiphenylaminanhydrosulfit. Sm. 128° u. Zers. (A. 316, 140). — *III, 21.

- $C_{19}H_{17}O_4N_3S$ 2) Phenylamid d. α -Phenylsulfon- α -[4-Oxyphenyl]hydrazin- β -Carbonsäure. Sm. 166—167° u. Zers. (A. 334, 177 C. 1904 [2] 834).
- $C_{19}H_{17}O_5NS$ 2) 4-Methylbenzolsulfonat d. α -Cyan- β -Oxy- β -Phenylakrylsäure-äthylester. Sm. 84° (Bl. [3] 31, 338 C. 1904 [1] 1135).
- $C_{19}H_{17}O_6N_3S$ 2) 6-[4-Acetylamidophenyl]ureido-1-Oxyaphthalin-3-Sulfonsäure (D. R. P. 148505 C. 1904 [1] 488).
- $C_{19}H_{19}O_2N_2S$ 3) Benzylidendiphenylaminanhydrosulfit. Sm. 125° (A. 316, 137). — *III, 20.
- 4) isom. Benzylidendiphenylaminanhydrosulfit + $\frac{1}{2}H_2O$. Sm. 132 bis 133° u. Zers. (A. 316, 139). — *III, 20
- $C_{19}H_{18}O_2N_3Cl$ 1) Diäthyläther d. 6-Chlor-2,4-Di[4-Oxyphenyl]-1,3,5-Triazin. Sm. 149° corr. (B. 36, 3194 C. 1903 [2] 956).
- $C_{19}H_{18}O_3NP$ 3) Phenylmonamid d. Phosphorsäurephenyl-4-Methylphenylester. Sm. 106° (A. 326, 227 C. 1903 [1] 866).
- 4) Methylphenylmonamid d. Phosphorsäurediphenylester. Sm. 50° (A. 326, 254 C. 1903 [1] 868).
- 5) Benzylmonamid d. Phosphorsäurediphenylester. Sm. 104—105° (A. 326, 175 C. 1903 [1] 819).
- $C_{19}H_{19}O_2NBr_2$ 1) Benzoat d. 1-[3,5-Dibrom-2-Oxybenzyl]hexahydropyridin. Sm. 110—111° (A. 332, 220 C. 1904 [2] 202).
- $C_{19}H_{18}O_2N_2P$ 2) Phenylamid-4-Methylphenylamid d. Phosphorsäuremonophenylester. Sm. 136—137° (A. 326, 249 C. 1903 [1] 868).
- $C_{19}H_{19}O_3NBr_2$ 2) Acetat d. N-Acetyl-3,6-Dibrom-4-Oxy-2,5-Dimethylbenzylamin. Sm. 140° (A. 332, 184 C. 1904 [2] 209).
- $C_{19}H_{20}ON_2Br_2$ *1) Dibromcinchonidin (J. pr. [2] 69, 193 C. 1904 [1] 1448).
- 5) isom. Dibromcinchonidin. Sm. 186°. (2HBr, Br₂) (J. pr. [2] 69, 209 C. 1904 [1] 1448).
- $C_{19}H_{20}ON_3P$ 3) Di[Phenylamid]-Methylphenylamid d. Phosphorsäure. Sm. 192° (A. 326, 255 C. 1903 [1] 869).
- $C_{19}H_{20}O_2NBr_3$ 1) Acetat d. 3,6,3'-Tribrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 156—157° (A. 334, 300 C. 1904 [2] 985).
- 2) Acetat d. 2,6,3'-Tribrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 150—151,5° (A. 334, 324 C. 1904 [2] 988).
- $C_{19}H_{20}O_2NJ$ 1) Jodmethylat d. 6,7-Dioxy-1-Benzylisochinolin dimethyläther. Sm. 206—207° (B. 37, 3401 C. 1904 [2] 1318).
- $C_{19}H_{20}O_4N_2Br_2$ 1) Di[β -Brom-4-Methoxyphenylamid] d. Propan- $\alpha\beta$ -Dicarbon-säure. Sm. 82—83° (G. 34 [2] 267 C. 1904 [2] 1453).
- $C_{19}H_{21}ON_2Br$ *3) isom. Bromcinchonin. Sm. 225—226°. HCl + 2H₂O, 2HBr, Oxalat + 7H₂O (J. pr. [2] 68, 430 C. 1904 [1] 179).
- 4) Bromcinchonidin. Sm. 218°. 2HBr + 2H₂O, Oxalat + 2H₂O (J. pr. [2] 69, 199 C. 1904 [1] 1448).
- $C_{19}H_{21}O_2NBr_3$ 1) Acetat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 144—145° (A. 334, 288 C. 1904 [2] 984).
- 2) Acetat d. 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 145—146,5° (A. 334, 320 C. 1904 [2] 987).
- $C_{19}H_{21}O_4N_4Br$ 1) 4-Bromphenylhydrazon d. Glyazindihydrotetramethyldimalon-säuremethylester- ϵ -Lakton. Sm. 196° (Soc. 83, 1259 C. 1903 [2] 1423).
- $C_{19}H_{22}ONBr_3$ 1) 3,6,3'-Tribrom-4'-Diäthylamido-4-Oxy-2,5-Dimethyldiphenylmethan (A. 334, 318 C. 1904 [2] 987).
- $C_{19}H_{22}ON_2Cl_2$ 1) Dichloridihydrocinchonin. Sm. 215° (J. 1847/48, 618; B. 25, 1543; M. 25, 904 C. 1904 [2] 1319).
- 2) Dichloridihydroalloecinchonin. Sm. 205—206° (M. 25, 905 C. 1904 [2] 1319).
- $C_{19}H_{22}ON_2Br_2$ *1) Dibromdihydrocinchonin. 2HBr, 2HNO₃ + H₂O (M. 24, 130 C. 1903 [1] 976; J. pr. [2] 68, 428, 436 C. 1904 [1] 179).
- *2) Dibromdihydrocinchonidin. (2HBr, Br₂) (J. pr. [2] 69, 193 C. 1904 [1] 1447).
- 3) Dibromdihydro- α -i-Cinchonin? Sm. 199—200° (M. 24, 125 C. 1903 [1] 976).

- $C_{19}H_{22}ON_3Br_2$ 4) Dibromdihydro- β -i-Cinchonin? Sm. 217—218° (*M.* 24, 126 *C.* 1903 [1] 976).
- $C_{19}H_{22}ON_3P$ 1) Methylphenylamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 148° (*A.* 326, 255 *C.* 1903 [1] 869).
- $C_{19}H_{22}O_2NJ$ 1) Jodmethylat d. Methylapomorphin. Sm. 229—230° u. Zers. (*B.* 35, 4388 *C.* 1903 [1] 339).
- $C_{19}H_{22}O_2N_2Br_2$ 1) 3,6-Dibrom-6'-Dimethylamido-3'-Acetylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 223—224° (*A.* 334, 314 *C.* 1904 [2] 987).
- $C_{19}H_{22}O_3NJ$ 3) Jodmethylat d. Codeinon. Sm. 180° (*B.* 36, 3073 *C.* 1903 [2] 953).
- $C_{19}H_{23}ONBr_2$ 2) 2,6-Dibrom-4'-Diäthylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 132—133°. HBr (*A.* 334, 325 *C.* 1904 [2] 988).
- $C_{19}H_{23}ON_2Cl$ *2) Hydrochlor- α -Isocinchonin. Sm. 185—186°. $H_2SO_4 + 4H_2O$ (*M.* 25, 899 *C.* 1904 [2] 1319).
- $C_{19}H_{23}ON_3Br$ *1) Hydrobromcinechonin. 2HBr (*M.* 24, 128 *C.* 1903 [1] 976).
- $C_{19}H_{24}O_2N_3Br$ 1) Menthylester d. α -Cyan- α -[4-Bromphenyl]azoessigsäure (zwei isom. Formen). Sm. 97—98° (u. 95—105°) (*C.* 1903 [1] 566; *Soc.* 85, 45 *C.* 1904 [1] 789).
- $C_{19}H_{24}O_4NJ$ 1) Jodmethylat d. Oxycodin. $+ \frac{1}{2}C_2H_6O$ (*B.* 36, 3070 *C.* 1903 [2] 953).
- $C_{19}H_{24}O_5N_2S$ 1) r- α -[2-Naphtylsulfon- α -Amidoisocapronyl]amidopropionsäure. Sm. 151° (*B.* 37, 3107 *C.* 1904 [2] 1210).
- $C_{19}H_{25}O_3NBr_2$ 1) Aethylhydroxyd d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 189—190°. Salze siehe (*B.* 29, 1125; *A.* 334, 316 *C.* 1904 [2] 987). — *II, 455.
- $C_{19}H_{26}ON_3P$ 1) Di[4-Methylphenylamid] d. 1-Piperidylphosphinsäure. Sm. 173° (*A.* 326, 187 *C.* 1903 [1] 820). — *IV, 9.
- $C_{19}H_{26}N_3SP$ 1) Di[4-Methylphenylamid] d. 1-Piperidylthiophosphinsäure. Sm. 190° (*A.* 326, 215 *C.* 1903 [1] 822).
- $C_{19}H_{25}O_3NBr$ 1) Bromäthylat d. Atropin. Sm. 173—174° (*D.R.P.* 145996 *C.* 1903 [2] 1226).
- $C_{19}H_{25}N_3SP$ 1) Amylmonamid-Di[4-Methylphenylamid] d. Thiophosphorsäure. Sm. 129° (*A.* 326, 205 *C.* 1903 [1] 821).
- $C_{19}H_{25}O_3NS$ 1) Aethylamid d. ϵ -Oxy- ϵ -Phenyl- β - β -Dimethylnonan- ϵ^2 -Sulfonsäure. Sm. 66—67° (*B.* 37, 3261 *C.* 1904 [2] 1031).
- $C_{19}H_{24}O_2N_2J_2$ 1) Jodmethylat d. Spartein-jodammoniumessigsäuremethylester. Sm. 232° (*Ar.* 242, 518 *C.* 1904 [2] 1412).
- 2) isom. Jodmethylat d. Spartein-jodammoniumessigsäuremethylester. Sm. 249° (*Ar.* 242, 518 *C.* 1904 [2] 1412).
- $C_{19}H_{25}N_3JP$ 1) Methyltri[Dipropylamido]phosphoniumjodid. Sm. 83—84° (*A.* 326, 170 *C.* 1903 [1] 762).

— 19 V —

- $C_{19}H_{13}O_2N_2BrS$ 1) Dianil d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 199 bis 200° (*Am.* 30, 495 *C.* 1904 [1] 370).
- $C_{19}H_{14}O_3NCIS$ 1) 4-Phenylsulfonchloramidodiphenylketon. Sm. 114° (*Soc.* 85, 397 *C.* 1904 [1] 1404).
- $C_{19}H_{15}O_3N_2BrS$ 1) s-Di[Phenylamid] d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 238—239° (*Am.* 30, 494 *C.* 1904 [1] 371).
- 2) uns-Di[Phenylamid] d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. noch nicht bei 300° (*Am.* 30, 494 *C.* 1904 [1] 370).
- $C_{19}H_{15}O_3N_3ClIS$ 1) α -Phenylhydrazon- α -[4-Sulfophenyl]azo- α -[2-Chlorphenyl]-methan. K (*C.* 1903 [2] 427).
- $C_{19}H_{17}O_3NBrP$ 1) 2-Brom-4-Methylphenylmonamid d. Phosphorsäurediphenylester. Sm. 126° (*A.* 326, 239 *C.* 1903 [1] 868).
- $C_{19}H_{19}ON_2ClIS$ 1) 2-Chlormethylat d. 5-Merkapto-3,4-Dimethyl-1-Phenylpyrazol-5-Benzozat. Sm. 72° (*A.* 331, 219 *C.* 1904 [1] 1219).
- $C_{19}H_{24}ONBr_2J$ 1) Jodäthylat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 172—173° (*A.* 334, 316 *C.* 1904 [2] 987).

C₂₀-Gruppe.

- C₂₀H₁₄ *3) 2,2'-Binaphtyl. Sm. 187° (A. 332, 50 C. 1904 [2] 40).
 *5) 9-Benzylidenfluoren (C. 1903 [1] 1369).
- C₂₀H₁₈ *1) 2-Benzylfluoren (M. 25, 450 C. 1904 [2] 450).
 7) $\alpha\alpha\beta$ -Triphenyläthan. Sm. 67—68° (B. 37, 1431 C. 1904 [1] 1351; B. 37, 1455 C. 1904 [1] 1353).
 8) 1,4-Dibenzylidenbenzol (B. 37, 1468 C. 1904 [1] 1342).
- C₂₀H₁₈ *1) $\alpha\alpha\beta$ -Triphenyläthan. Sm. 54°; Sd. 348—349° (B. 37, 1455 C. 1904 [1] 1353).
 *3) 3-Methyltriphenylmethan. Sm. 61—62° (62—63°); Sd. 354° (B. 37, 1251 C. 1904 [1] 1355; B. 37, 3358 C. 1904 [2] 1126; B. 37, 3696 C. 1904 [2] 1500).
 *4) 4-Methyltriphenylmethan. Sm. 71° (B. 37, 658 C. 1904 [1] 951).
 *5) 1,4-Dibenzylbenzol. Sm. 83—84° (B. 37, 1467 C. 1904 [1] 1342).
 *7) $\alpha\beta$ -Diphenyl- $\alpha\gamma\epsilon\eta$ -Oktatetraën. Sm. 225° u. Zers. (A. 331, 165 C. 1904 [1] 1211).
 8) $\alpha\alpha\alpha$ -Triphenyläthan. Sm. 95° (B. 36, 472 C. 1903 [1] 638).
 9) 2-Methyltriphenylmethan. Sm. 82—83° (B. 37, 1249 C. 1904 [1] 1355).
- C₂₀H₂₀ *1) Diphenyldibutadiën. Sd. 217—220°₁₇ (B. 36, 4325 C. 1904 [1] 453; B. 37, 2274 C. 1904 [2] 217).
 *2) Diphenylcyclooctadiën. Sd. 204—206°₁₀ (B. 36, 4322 C. 1904 [1] 453).
- C₂₀H₂₈ 2) Kohlenwasserstoff (aus Cholesterylchlorid). Sd. 241—265°₄₂ (M. 24, 662 C. 1903 [2] 1236).
- 20 II —
- C₂₀H₁₂O₂ 4) Acenaphtanthrachinon. Sm. 215—220° (A. 327, 102 C. 1903 [1] 1229).
 C₂₀H₁₂O₃ 4) 2-Benzoyl-3,4- β -Naphthopyron (α -Benzoyl- β -Naphthocumarin). Sm. 207° (B. 36, 1974 C. 1903 [2] 377).
- C₂₀H₁₂O₄ 12) Acetat d. 11-Oxy-5,12-Naphtacenchinon (B. 36, 551 C. 1903 [1] 720).
 C₂₀H₁₂O₆ 5) 2,3-Lakton d. 1-Keto-3-Methoxyl-2-[2-Oxy-1,3-Diketo-2,3-Dihydro-2-Indenyl]-2,3-Dihydroinden-3-Carbonsäure. Sm. 198° (B. 35, 3962 C. 1903 [1] 33).
- C₂₀H₁₂O₇ *2) Phloroglucinphtaleïn (B. 36, 1071 C. 1903 [1] 1181).
 *5) Gallein (B. 36, 1561 C. 1903 [2] 118).
- C₂₀H₁₂O₈ 2) Trioxylfluoresceïn (B. 36, 1083 C. 1903 [1] 1183).
 C₂₀H₁₂N₂ *1) Dinaphtazin (as-1,2-Naphtazin). Sm. 279° (B. 36, 4172 C. 1904 [1] 287).
 8) 1,1'-Dinaphto-2,2'-Orthodiazin. Sm. 267—268° (2HCl, PtCl₄) (B. 36, 4162 C. 1904 [1] 286).
- C₂₀H₁₃N *1) $\beta\beta$ -Dinaphtylenamin (1,1'-Dinaphto-2,2'-Imin). Sm. 157° (155°) (B. 36, 4160 C. 1904 [1] 286; Soc. 83, 273 C. 1903 [1] 588, 883).
 5) 1,2,2',1'-Dinaphtocarbazol. Sm. 231° (Soc. 83, 274 C. 1903 [1] 588, 883).
- C₂₀H₁₄O *1) 10-Oxy-9-Phenylantracen. (HJ, J₈), + J₂ (B. 37, 3342 C. 1904 [2] 1057).
 *2) 1,1'-Dinaphtyläther. Sm. 105° (B. 36, 2942 C. 1903 [2] 885).
 *5) 2-Benzoylfluoren (M. 24, 591 C. 1903 [2] 1276; M. 24, 592 C. 1903 [2] 1276; M. 25, 449 C. 1904 [2] 449).
- C₂₀H₁₄O₂ *6) 10-Oxy-9-Keto-10-Phenyl-9,10-Dihydroanthracen (C. r. 138, 1251 C. 1904 [2] 118).
 17) 3,3'-Dioxy-2,2'-Binaphtyl. Sm. 216° (C. r. 138, 1618 C. 1904 [2] 338).
- C₂₀H₁₄O₃ 16) Methylenäther d. γ -Keto- γ -[β -Naphtyl]- α -[3,4-Dioxyphenyl]propen. Sm. 141° (B. 37, 1703 C. 1904 [1] 1497).
 17) 3-Benzoylacenaphten-3'-Carbonsäure. Sm. 200° (A. 327, 99 C. 1903 [1] 1228).
- C₂₀H₁₄O₄ *15) Phenolphtaleïn (Soc. 85, 398).
 *21) Diphenylester d. Benzol-1,2-Dicarbonsäure. Sm. 73°; Sd. 405°₇₅₀ (B. 35, 4091 C. 1903 [1] 75).
 24) Phenylester d. 2-Benzoxylbenzol-1-Carbonsäure. Sm. 80,5—81° (G. 34 [1] 268 C. 1904 [1] 1498).
- C₂₀H₁₄O₅ 10) Verbindung (aus $\alpha\beta\gamma$ -Tri keto- α -Phenylbutan). Sm. 168° (B. 36, 3232 C. 1903 [2] 941).

- $C_{20}H_{14}O_5$ 11) Verbindung (aus Resorcin u. Benzil). Sm. oberh. 330° (B. 36, 3051 C. 1903 [2] 1008; B. 36, 3054 C. 1903 [2] 1009).
- $C_{20}H_{14}O_6$ 9) $\alpha\alpha$ -Di[4-Oxy-1,2-Benzpyron-3]-äthan (Aethylidenbis- β -Oxycumarin). Sm. 165° (B. 36, 465 C. 1903 [1] 636).
- 10) Fluoresceinsäure. Nur als Anhydrid bekannt (A. 183, 1; 215, 83; B. 29, 2629). — II, 2060; *II, 1208.
- 11) Dimethyldioxyäthindiphtalid. Sm. noch nicht bei 330° (B. 37, 3346 C. 1904 [2] 1057).
- 12) Dimethyldioxyisöäthindiphtalid (3,6,9,11-Tetraoxy-1,7-Dimethyl-5,12-Naphtacenchinon). Sm. noch nicht bei 330° (B. 37, 3347 C. 1904 [2] 1057).
- $C_{20}H_{14}O_8$ 9) 5,6-Diacetat d. 5,6-Dioxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran-3,4-Methylenäther (B. 29, 2435). — *III, 534.
- $C_{20}H_{14}O_9$ 4) Norcocaflavetin. Sm. 270° (J. pr. [2] 66, 416 C. 1903 [1] 528).
- $C_{20}H_{14}N_2$ *4) 2,2'-Azonaphtalin. Sm. 208° (B. 36, 4159 C. 1904 [1] 286).
- $C_{20}H_{14}S_2$ *1) 1,1'-Dinaphtyldisulfid (Bl. [3] 29, 762 C. 1903 [2] 620).
- $C_{20}H_{14}Se_2$ 1) 1,1'-Dinaphtyldiselenid. Sm. $87-88^\circ$ (Bl. [3] 29, 763 C. 1903 [2] 621).
- $C_{20}H_{16}N$ 12) 5-Benzylakridin. Sm. 173° . Pikrat (B. 37, 1565 C. 1904 [1] 1447).
- $C_{20}H_{15}N_3$ *9) 6-Amido-2,3-Diphenyl-1,4-Benzdiazin. Sm. 177° (B. 37, 2278 C. 1904 [2] 434).
- 12) 3-Phenylazo-2-Phenylindol. Sm. 166° (G. 32 [2] 462 C. 1903 [1] 839).
- $C_{20}H_{16}O$ 9) 2-oder-3-[α -Oxybenzyl]fluoren. Sm. 113° (M. 24, 592 C. 1903 [2] 1276).
- 10) 4-Keto-3-Methyl-1-Diphenylmethylen-1,4-Dihydrobenzol. Sm. 176° (B. 36, 3562 C. 1903 [2] 1374).
- $C_{20}H_{16}O_2$ *1) α -Oxy- β -Keto- $\alpha\alpha\beta$ -Triphenyläthan (Phenylbenzoin). Sm. 87° (Am. 29, 597 C. 1903 [2] 196; B. 37, 2758 C. 1904 [2] 707).
- *3) Triphenylessigsäure. Sm. 264° (B. 36, 146 C. 1903 [1] 466).
- *5) Triphenylmethan-4-Carbonsäure. Sm. 162° (B. 37, 662 C. 1904 [1] 952).
- *8) Benzoat d. 4-Oxydiphenylmethan. Sm. 87° (A. 334, 373 C. 1904 [2] 1050).
- 10) Methyläther d. 9-Oxy-9-Phenylxanthen. Sm. $96-97^\circ$ (B. 37, 2934 C. 1904 [2] 1142).
- 11) Acetat d. 2-Oxy-1,4-Diphenylbenzol. Sm. 144° (B. 36, 1409 C. 1903 [1] 1358).
- 12) Verbindung (aus Benzylchlorid u. Phenol). Sm. $86-87^\circ$ (G. 33 [2] 458 C. 1904 [1] 654).
- $C_{20}H_{16}O_3$ *5) α -Oxytriphenylmethan-3-Carbonsäure. Sm. $166-167^\circ$ (B. 37, 3698 C. 1904 [2] 1501).
- *6) α -Oxytriphenylmethan-4-Carbonsäure. Sm. 200° . Ba + $7H_2O$ (B. 37, 657 C. 1904 [1] 951).
- $C_{20}H_{16}O_4$ 20) Diphenyloktendilakton. Sm. $226-227^\circ$ (A. 334, 140 C. 1904 [2] 890).
- 21) Dimethylester d. 2-Phenylnaphtalin-1,2'-Dicarbonsäure. Sm. 90° (A. 335, 118 C. 1904 [2] 1132).
- 22) Äthylester d. 2-[1-Oxy-2-Naphtoyl]benzol-1-Carbonsäure. Sm. 91° (B. 36, 560 C. 1903 [1] 721).
- $C_{20}H_{16}O_5$ *7) Monoäthylester d. Pulvinsäure (Äthylpulvinsäure) (C. 1903 [2] 121).
- 11) Methyläther d. Formononetin. Sm. 156° (M. 24, 146 C. 1903 [1] 1033).
- 12) Dibenzoylbernsteinsäureäthylesteranhydrid. Sm. $198-200^\circ$ u. Zers. (A. 293, 119). — *II, 1187.
- $C_{20}H_{16}O_6$ 20) Diacetat d. 1,7-Dioxy-2,6-Dimethyl-9,10-Anthrachinon. Sm. 215° (Soc. 83, 1332 C. 1904 [1] 100).
- 21) Triacetat d. 2,3,9-Trioxyanthracen. Sm. $163-164^\circ$ (B. 36, 2938 C. 1903 [2] 886).
- 22) Verbindung (aus $\alpha\beta\gamma$ -Tri keto- α -Phenylbutan). Sm. 202° (B. 35, 3319 C. 1902 [2] 1110; B. 36, 3232 C. 1903 [2] 941).
- $C_{20}H_{16}O_7$ 10) Tetramethyläther d. Tetraoxybrasanchinon. Sm. 264° (B. 36, 2205 C. 1903 [2] 382).

- $C_{20}H_{16}O_7$ 11) Diacetat d. Emodinmonomethyläther. Sm. 157° (*Soc.* 83, 1331 *C.* 1904 [1] 100).
- $C_{20}H_{16}O_8$ 9) Triacetat d. 2,3,7-Trioxo-9-Methylfluoron. Sm. 225—228° (*B.* 37, 2731 *C.* 1904 [2] 541).
- $C_{20}H_{16}N_2$ *2) 1,4-Di[Benzylidenamido]benzol. Sm. 138—140° (*Soc.* 85, 1176 *C.* 1904 [2] 1215).
- *8) s-Di[2-Naphtyl]hydrazin. Sm. 140—141° (*B.* 36, 4161 *C.* 1904 [1] 286).
- 25) 2,2'-Diamido-1,1'-Binaphtyl. Sm. 191° (*B.* 30, 82; *B.* 36, 4159 *C.* 1904 [1] 286).
- 26) 2,4-Di[β -Phenyläthenyl]-1,3-Diazin. Sm. 145—146° (*B.* 36, 3385 *C.* 1903 [2] 1193).
- $C_{20}H_{16}N_4$ 13) 3-Phenylamido-1,5-Diphenyl-1,2,4-Triazol. Sm. 202° (*Am.* 29, 80 *C.* 1903 [1] 523; *Am.* 32, 365 *C.* 1904 [2] 1507).
- 14) 1,4,5-Triphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Imid. Sm. 203° (*J. pr.* [2] 67, 232 *C.* 1903 [1] 1262).
- 15) 2-[2-Phenylhydrazonmethylphenyl]indazol. Sm. 191° u. Zers. (195°) (*C. r.* 137, 983 *C.* 1904 [1] 176; *Bl.* [3] 31, 872 *C.* 1904 [2] 661).
- $C_{20}H_{16}Br_2$ 1) 1,4-Di[α -Brombenzyl]benzol. Sm. 112,5° (*B.* 37, 1467 *C.* 1904 [1] 1342).
- $C_{20}H_{17}N$ 7) 1,2-Diphenyl-3-[2-Pyridyl]-R-Trimethylen. Sm. 164°. HCl (*B.* 36, 118 *C.* 1903 [1] 469).
- 8) 5,7-Diphenyl-2,3-Dihydro-4-Isobenzazol (5,7-Diphenyl-2,3-Dihydro-pyridin). Sm. 145—146°. HCl, Pikrat (*B.* 35, 3975 *C.* 1903 [1] 37).
- $C_{20}H_{17}Cl$ 2) α -Chlor-2-Methyltriphenylmethan. Sm. 136—137° (*B.* 37, 1250 *C.* 1904 [1] 1355).
- 3) α -Chlor-4-Methyltriphenylmethan. Sm. 99° (*B.* 37, 661 *C.* 1904 [1] 952; *B.* 37, 1631 *C.* 1904 [1] 1649).
- $C_{20}H_{18}O$ *2) α -Oxy-2-Methyltriphenylmethan^p Sm. 150° (*B.* 37, 991 *C.* 1904 [1] 1215; *B.* 37, 1248 *C.* 1904 [1] 1354; *B.* 37, 3359 *C.* 1904 [2] 1127).
- *6) Methyläther d. 4-Oxytriphenylmethan. Sm. 64—65° (*B.* 36, 2790 *C.* 1903 [2] 882).
- 7) 4-Oxy- $\alpha\alpha\alpha$ -Triphenyläthan. Sm. 119—120° (*B.* 36, 2794 *C.* 1903 [2] 883).
- 8) α -Oxy- $\alpha\alpha\beta$ -Triphenyläthan. Sm. 88—89° (*B.* 37, 1430 *C.* 1904 [1] 1351; *B.* 37, 1455 *C.* 1904 [1] 1353).
- 9) α -Oxy-2-Methyltriphenylmethan. Sm. 98° (*B.* 37, 993 *C.* 1904 [1] 1215; *B.* 37, 1248 *C.* 1904 [1] 1354).
- 10) α -Oxy-3-Methyltriphenylmethan. Sm. 65° (67—68°; *Sd.* 240—245°, *B.* 37, 993 *C.* 1904 [1] 1215; *B.* 37, 1250 *C.* 1904 [1] 1355; *B.* 37, 3360 *C.* 1904 [2] 1126).
- 11) α -Oxy-4-Methyltriphenylmethan. Sm. 72—73° (74°) (*B.* 37, 656, 663 *C.* 1904 [1] 951; *B.* 37, 992 *C.* 1904 [1] 1214).
- 12) 4-Oxy-3-Methyltriphenylmethan. Sm. 100° (*B.* 36, 3561 *C.* 1903 [2] 1374; *B.* 36, 3565 *C.* 1903 [2] 1375).
- 13) 4-Keto-6-Phenyl-2-[β -Phenyläthenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 105° (*C.* 1903 [2] 944).
- $C_{20}H_{18}O_2$ *2) $\alpha\beta$ -Dioxy- $\alpha\alpha\beta$ -Triphenyläthan. Sm. 168° (163—165°) (*B.* 36, 1577 *C.* 1903 [1] 1397; *B.* 36, 1953 *C.* 1903 [2] 276; *B.* 37, 2762 *C.* 1904 [2] 707).
- *8) 4-Methyläther d. $\alpha,4$ -Dioxytriphenylmethan. Sm. 84° (*B.* 36, 2334 *C.* 1903 [2] 440; *B.* 36, 2789 *C.* 1903 [2] 882).
- 9) $\alpha,4$ -Dioxy-3-Methyltriphenylmethan. Sm. 107—108°. K (*B.* 36, 3558 *C.* 1903 [2] 1374).
- 10) isom. $\alpha,4$ -Dioxy-3-Methyltriphenylmethan. Sm. 148—149° (*B.* 36, 3566 *C.* 1903 [2] 1375).
- $C_{20}H_{18}O_8$ 10) Anhydrid d. Phenylisocrotonsäure. Sm. 120—121° (*B.* 37, 2001 *C.* 1904 [2] 24).
- 11) Benzoat d. Pyrogallacine. Sm. 179° (*M.* 1, 599; 19, 99). — III, 645; *III, 474.
- $C_{20}H_{18}O_4$ *12) Methylster d. 3-Keto-2-Benzoyl-1-Phenyl-R-Pentamethylen-5-Carbonsäure. Sm. 115—116° (*A.* 326, 349 *C.* 1903 [1] 1124).
- 13) Methylster d. 4-Oxy-5-Benzoyl-1-Phenyl-2,3-Dihydro-R-Penten-2-Carbonsäure. Cu (*A.* 326, 351 *C.* 1903 [1] 1124).

- $C_{20}H_{18}O_5$ *10) β -Tetramethyläther d. Dehydrobrasilin (T. d. Tetraoxybrasan). Sm. 158° (B. 36, 2198 C. 1903 [2] 381).
- 12) γ -Benzoylmethyl- α -Phenyl- α -Buten- $\delta\delta$ -Dicarbonsäure. Sm. 163° (C. 1903 [2] 944).
- 13) Diphenylketotoktolaktonsäure + $3H_2O$. Sm. 195—197° (wasserfrei). Ca + $2\frac{1}{2}H_2O$ (A. 334, 133 C. 1904 [2] 889).
- 14) Isodiphenylketotoktolaktonsäure. Sm. 202—206°. Ca (A. 334, 138 C. 1904 [2] 890).
- 15) Säure (aus Diphenyloktendilakton). Sm. 170—171° (A. 334, 142 C. 1904 [2] 890).
- $C_{20}H_{18}O_6$ 14) Resinotannol (aus Feroxaloe) (Ar. 241, 350 C. 1903 [2] 726).
- 15) Tetramethyläther d. Pentaoxybrasan. Sm. 218° (B. 36, 2204 C. 1903 [2] 382).
- 16) Tetramethyläther d. Pentaoxyrufinden (B. 36, 2203 C. 1903 [2] 382).
- 17) Dibenzoat d. Dulcid. Sm. 138° (C. r. 139, 638 C. 1904 [2] 1536).
- $C_{20}H_{18}O_7$ 9) 3-Acetat d. 3,6-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron-2³,2',6-Trimethyläther. Sm. 140—141° (B. 37, 780 C. 1904 [1] 1156).
- 10) 3-Acetat d. 3,5,7-Trioxy-2-[4-Oxyphenyl]-1,4-Benzpyron-2⁴,5,7-Trimethyläther. Sm. 190—191° (B. 37, 2098 C. 1904 [2] 121).
- 11) 3-Acetat d. 3,7,8-Trioxy-2-[2-Oxyphenyl]-1,4-Benzpyron-2³,7,8-Trimethyläther. Sm. 138—139° (B. 37, 2630 C. 1904 [2] 539).
- 12) 3-Acetat d. 3,7,8-Trioxy-2-[3-Oxyphenyl]-1,4-Benzpyron-2³,7,8-Trimethyläther. Sm. 165° (B. 37, 2633 C. 1904 [2] 540).
- $C_{20}H_{18}O_8$ 15) Säure (aus Citronensäure u. Benzaldehyd). Sm. 143—144°. Ag₃ (M. 24, 84 C. 1903 [1] 769).
- $C_{20}H_{18}O_9$ 7) Atranorsäure (C. 1903 [2] 120).
- $C_{20}H_{18}O_{10}$ 5) Pentamethyläther d. Galloflavin. Sm. 235—237° (M. 25, 607 C. 1904 [2] 908).
- $C_{20}H_{18}N_2$ *5) α -Benzylimido- α -Phenylamido- α -Phenylmethan. Sm. 99—100° (Soc. 83, 327 C. 1903 [1] 581, 877).
- *6) α -[4-Methylphenyl]imido- α -Phenylamido- α -Phenylmethan. HCl, (2HCl, PtCl₄) (B. 36, 23 C. 1903 [1] 510).
- *10) β -Benzyliden- α -Phenyl- α -Benzylhydrazin. Sm. 111° (M. 25, 594 C. 1904 [2] 1293).
- 22) α -Diphenylmethyl- β -Benzylidenhydrazin. Sm. 85° u. Zers. (J. pr. [2] 67, 176 C. 1903 [1] 874).
- $C_{20}H_{18}N_4$ 24) β -Phenylazo- β -Phenylhydrazon- α -Phenyläthan. Sm. 127° (B. 36, 2486 C. 1903 [2] 490).
- $C_{20}H_{18}Br_4$ 1) $\alpha\delta\epsilon\theta$ -Tetrabrom- $\alpha\theta$ -Diphenyl- $\beta\zeta$ -Oktadien. Sm. 185° (A. 331, 166 C. 1904 [1] 1211).
- $C_{20}H_{18}Br_5$ 1) $\alpha\beta\gamma\delta\epsilon\zeta\eta\theta$ -Oktobrom- $\alpha\theta$ -Diphenyloktan. Sm. 248° (A. 331, 167 C. 1904 [1] 1211).
- $C_{20}H_{19}N$ 6) 2-Methylamidotriphenylmethan. Sm. 130—132°. HCl (B. 37, 3206 C. 1904 [2] 1473).
- 7) α -[4-Isopropylphenyl]- β -[4-Chinolyl]äthen. HCl + H_2O , (2HCl, PtCl₄), (HCl, AuCl₃) (B. 36, 1671 C. 1903 [2] 49).
- $C_{20}H_{19}N_3$ 11) Anhydrid d. 4,4',4''-Triamido- α -Oxy-3-Methyltriphenylmethan (B. 36, 4024 C. 1904 [1] 167).
- $C_{20}H_{10}Br_3$ 1) Brombisdiphenylbutadiëndibromid. Sm. 223° u. Zers. (B. 37, 2276 C. 1904 [2] 218).
- 2) Verbindung (aus Diphenylbutadien). Sm. 213—214° (203—204°) (B. 36, 4325 C. 1904 [1] 453; B. 37, 2103 C. 1904 [2] 104).
- $C_{20}H_{20}O_2$ *2) 2-Keto-1-[γ -Keto- $\alpha\gamma$ -Diphenylpropyl]-R-Pentamethylen. Sm. 78—80° (B. 35, 3973 C. 1903 [1] 36).
- $C_{20}H_{20}O_4$ *13) Diphenyloktolaktonsäure. Sm. 179°. Ca, Ba, Ag (A. 334, 120 C. 1904 [2] 889).
- 30) 2',2'-Diäthyläther d. 7-Oxy-4-Methylen-2-[2,4-Dioxyphenyl]-1,4-Benzpyran. Sm. 77—81°. HCl, (2HCl, PtCl₄), H_2SO_4 + $2H_2O$, Pikrat (B. 37, 357 C. 1904 [1] 670).
- 31) Dibenzoat d. isom. 1,2-Dioxyhexahydrobenzol. Sm. 93,5° (C. r. 136, 385 C. 1903 [1] 711).
- $C_{20}H_{20}O_5$ *6) Diphenylketoktonsäure. Sm. 132°. Ba, A₂ (A. 334, 126 C. 1904 [2] 889).

- $C_{26}H_{20}O_6$ 15) Methyläther d. Verb. $C_{18}H_{18}O_6$. Sm. 82—83° (*M.* 25, 882 *C.* 1904 [2] 1313).
 16) Oxysäure (aus Diphenylketotolaktonsäure). Ca (*A.* 334, 136 *C.* 1904 [2] 889).
 17) Oxysäure (aus Isodiphenylketotolaktonsäure). Ca (*A.* 334, 140 *C.* 1904 [2] 890).
 18) γ^2 -Acetat d. γ -Keto- α -[2-Oxyphenyl]- γ -[2, 3, 4-Trioxyphenyl]-propen- $\alpha^2, \gamma^3, \gamma^4$ -Trimethyläther. Sm. 88° (*B.* 37, 2629 *C.* 1904 [2] 539).
 19) γ^2 -Acetat d. γ -Keto- α -[3-Oxyphenyl]- γ -[2, 3, 4-Trioxyphenyl]-propen- $\alpha^3, \gamma^2, \gamma^4$ -Trimethyläther. Sm. 80—81° (*B.* 37, 2632 *C.* 1904 [2] 539).
 20) γ^6 -Acetat d. γ -Keto- γ -[2, 4, 6-Trioxyphenyl]- α -[4-Oxyphenyl]-propen- $\alpha^4, \gamma^2, \gamma^4$ -Trimethyläther. Sm. 120° (*B.* 37, 793 *C.* 1904 [1] 1158).
- $C_{20}H_{20}O_7$ *5) Tetramethyläther d. Hämatoxylon (T. d. Hexaoxyrufindan) (*B.* 36, 2203 *C.* 1903 [2] 382).
 8) Pentamethyläther d. Quercetin + H_2O . Sm. 148° (*Ar.* 242, 242 *C.* 1904 [1] 1652).
 9) Verbindung (aus Hämatoxylontetramethyläther). Sm. 165—167° (*B.* 37, 632 *C.* 1904 [1] 955).
- $C_{20}H_{20}O_8$ 6) Hexamethyläther d. 1, 2, 3, 5, 6, 7-Hexaoxy-9, 10-Anthrachinon. Sm. 245° (*C.* 1904 [2] 709).
- $C_{20}H_{20}N_4$ 3) β -Phenylhydrazon- β -Phenylhydrazido- α -Phenyläthan. Sm. 127° (*B.* 36, 2486 *C.* 1903 [2] 490).
 4) Phenylhydrazon d. Verb. $C_{14}H_{14}ON_2$. Sm. 227—228° (*Bl.* [3] 31, 452 *C.* 1904 [1] 1498).
- $C_{20}H_{21}N_3$ 4) $\alpha\alpha\alpha$ -Tri[β -Amidophenyl]äthan. Sm. 191—192° (*B.* 36, 474 *C.* 1903 [1] 638).
- $C_{20}H_{22}O_4$ *10) Diäthylester d. $\alpha\beta$ -Diphenyläthan-2, 2'-Dicarbonsäure. Sm. 71° (*B.* 37, 3219 *C.* 1904 [2] 1120).
 16) 2', 2'-Diäthyläther d. 7-Oxy-4-Methyl-2-[2, 4-Dioxyphenyl]-1, 4-Benzpyran. Sm. 125—147° (*B.* 37, 361 *C.* 1904 [1] 671).
 17) Diäthylester d. $\alpha\beta$ -Diphenyläthan-4, 4'-Dicarbonsäure. Sm. 100° (*B.* 37, 3216 *C.* 1904 [2] 1120).
 18) Diphenylester d. para-Hexan- $\gamma\delta$ -Dicarbonsäure. Sm. 107—108° (*B.* 35, 4083 *C.* 1903 [1] 74).
 19) Di[2, 4-Dimethylphenylester] d. Bernsteinsäure. Sm. 70° (*B.* 35, 4080 *C.* 1903 [1] 74).
 20) Di[2, 5-Dimethylphenylester] d. Bernsteinsäure. Sm. 81° (*B.* 35, 4081 *C.* 1903 [1] 74).
 21) Di[3, 4-Dimethylphenylester] d. Bernsteinsäure. Sm. 110° (*B.* 35, 4080 *C.* 1903 [1] 74).
 22) Dibenzat d. $\alpha\zeta$ -Dioxyhexan. Sm. 56° (*C. r.* 136, 245 *C.* 1903 [1] 583).
- $C_{20}H_{22}O_5$ *9) Oxysäure (aus Diphenyltolaktonsäure). Ba, Ag_2 (*A.* 334, 123 *C.* 1904 [2] 889).
- $C_{20}H_{22}O_6$ *5) Tetramethyläther d. Hämatoxilin. Sm. 142° (*B.* 36, 2202 *C.* 1903 [2] 382).
 15) Dibenzyliden-1-Sorbit. Sm. 160° (*R.* 19, 8). — *III, 6.
 16) 4, 4'-Diacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan- $\alpha\beta$ -Dimethyläther. Sm. 153° (*A.* 335, 174 *C.* 1904 [2] 1129).
 17) 4, 4'-Diacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan- $\alpha\beta$ -Dimethyläther. Sm. 91° (*A.* 335, 175 *C.* 1904 [2] 1129).
 18) Verbindung (aus Dihydroflavaspidsäureanthen). Sm. 213—215° + Aceton (*A.* 329, 314 *C.* 1904 [1] 799).
- $C_{20}H_{22}O_8$ *2) Populin (*C.* 1904 [2] 1405).
- $C_{20}H_{22}O_{10}$ *1) Erythrin + H_2O . Sm. 137° (*Bl.* [3] 31, 611 *C.* 1904 [2] 99; *Bl.* [3] 31, 1098).
 9) Aethylester d. Benzoylcamphocarbonsäure. Sm. 46—47°; Sd. 218 bis 218,5°₁₄ (*B.* 35, 4039 *C.* 1903 [1] 82).
 2) Olivil. Sm. 142,5° (*C.* 1903 [1] 920).
 3) Isoolivil (*C.* 1903 [1] 921).

- $C_{20}H_{24}N_2$ *2) Di[2,4,6-Trimethylbenzyliden]hydrazin. Sm. 167° (*C.* 1903 [1] 141).
 *4) $\alpha\beta$ -Di[1,2,3,4-Tetrahydro-2-Isochinolyl]äthan. Sm. 95—96° (*B.* 36, 1167 *C.* 1903 [1] 1187; *B.* 36, 3800 *C.* 1904 [1] 21).
 5) γ -Phenylhydrazon- α -[4-Isopropylphenyl]- α -Penten. Sm. 87,5° (*A.* 330, 258 *C.* 1904 [1] 946).
 6) γ -Phenylhydrazon- α -[4-Isopropylphenyl]- β -Methyl- α -Buten. Sm. 106,5° (*A.* 330, 261 *C.* 1904 [1] 947).
 7) $\alpha\beta$ -Di[1,2,3,4-Tetrahydro-1-Chinolyl]äthan. Sm. 146—147° (*B.* 36, 3799 *C.* 1904 [1] 21).
- $C_{20}H_{26}O_4$ 4) Dihydrobidurochinon (*B.* 29, 2184). — *III, 273.
 $C_{20}H_{26}O_8$ C 60,9 — H 6,6 — O 32,5 — M. G. 394.
 1) Tetraacetat d. 2,3,5,6-Tetraoxy-1,4-Diisopropylbenzol. Sm. 245° (*B.* 37, 2390 *C.* 1904 [2] 308).
- $C_{20}H_{26}O_{10}$ 2) Diäthylester d. Glyko-o-Cumarincarbonsäure. Sm. 152° (*C.* 1903 [1] 89).
- $C_{20}H_{26}N_2$ *3) $\alpha\gamma$ -Di[2,4-Dimethylphenylamido]- α -Buten (*A.* 329, 223 *C.* 1903 [2] 1428).
 8) γ -Phenylhydrazon- α -[4-Isopropylphenyl]pentan. Sm. 135° (*A.* 330, 260 *C.* 1904 [1] 947).
 9) α -[2,4,6-Trimethylbenzyl]- β -[2,4,6-Trimethylbenzyliden]hydrazin. Sm. 88—89° (*C.* 1903 [1] 142).
- $C_{20}H_{26}N_4$ 9) 3,8-Di[Diäthylamido]diphenazin. Sm. 184° (*B.* 37, 34 *C.* 1904 [1] 524).
- $C_{20}H_{28}O_2$ *1) Dicumphochinon (*B.* 37, 1569 *C.* 1904 [1] 1442).
 *2) $\beta\beta$ -Dicamphanhexan-1,4-dion (Dicamphendion). Sm. 192—193° (*D.R.P.* 94498; *B.* 36, 2610 *C.* 1903 [2] 623).
 5) Dicumphenhexadiänperryd. Sm. 155—156° (*G.* 27 [1] 180). — *III, 369.
- $C_{20}H_{28}O_4$ 4) Laricopinonsäure. Sm. 97°. K, Ba, Pb, Ag (*Ar.* 241, 576 *C.* 1904 [1] 166).
- $C_{20}H_{28}O_6$ 4) Methyl ester d. Diacetylsantolsäure. Sm. 151° (*B.* 37, 260 *C.* 1904 [1] 643).
 C 60,6 — H 7,1 — O 32,3 — M. G. 396.
- $C_{20}H_{28}O_8$ 1) Ciliansäure. Sm. 242°. Ba_3 (*M.* 24, 57 *C.* 1903 [1] 766).
- $C_{20}H_{28}O_{13}$ *1) Amygdalinsäure (*B.* 35, 4161 *C.* 1903 [1] 124).
- $C_{20}H_{28}N_2$ *1) 4,4'-Di[Diäthylamido]biphenyl. Sm. 86° (*B.* 37, 33 *C.* 1904 [1] 524).
- $C_{20}H_{30}O$ 4) Abiitoresen. Sm. 168—169° (*C.* 1900 [2] 862). — *III, 426.
 5) Verbindung (aus d. Aldehyd d. Camphenilansäure). Sm. 72° (*H.* 37, 198 *C.* 1903 [1] 595).
- $C_{20}H_{30}O_2$ *1) $\beta\beta$ -Dicampher. Sm. 163—164° (*B.* 36, 2611 *C.* 1903 [2] 623).
 *14) Metacopaivasäure (Gurjuturbosinol) (*Ar.* 241, 390 *C.* 1903 [2] 724).
 *15) d-Pimarsäure (*Soc.* 85, 1242 *C.* 1904 [2] 1308).
 27) Isodicampher. Sm. 90—95°? (*G.* 27 [1] 167). — *III, 370.
 28) Beljabetinsäure. Sm. 153—154°. K, Pb, Ag (*Ar.* 240, 589 *C.* 1903 [1] 164).
 29) Palabietinsäure. Sm. 153—154°. K, Pb, Ag (*Ar.* 240, 578 *C.* 1903 [1] 163).
- $C_{20}H_{32}O$ 6) Verbindung (aus Erythroxyllonmonogynum Roxb.). Sm. 117—118° (*C.* 1904 [1] 1265).
- $C_{20}H_{32}O_2$ *4) Dicumpherpinakon. Sm. 151° (*B.* 36, 2625 *C.* 1903 [2] 624).
 9) Lepranthasäure. Sm. 111—112° (*A.* 336, 51 *C.* 1904 [2] 1325).
 10) Verbindung (aus Campher). Sm. 160° (*B.* 35, 3912 *C.* 1903 [1] 29; *B.* 36, 2632 *C.* 1903 [2] 626).
 11) Verbindung (aus Ficus elastica). Sm. 195° (*B.* 37, 3847 *C.* 1904 [2] 1613).
- $C_{20}H_{32}O_4$ 10) Acetat-Methyläthylakrylat d. Glykol $C_{12}H_{22}O_2$. Sd. 225—232°₁₁ (*M.* 24, 162 *C.* 1903 [1] 957).
- $C_{20}H_{32}O_8$ 2) Digitsäure (siehe auch $C_{10}H_{16}O_4$). KH (*B.* 37, 1217 *C.* 1904 [1] 1363).
 $C_{20}H_{32}O_{12}$ C 51,7 — H 6,9 — O 41,4 — M. G. 464.
 1) Verbindung (aus Kautschuk) oder $C_{80}H_{48}O_{18}$ (*B.* 37, 2709 *C.* 1904 [2] 528).
- $C_{20}H_{34}O$ 12) Verbindung (aus Kō-Sam-Samen). Sm. 130—133° (*C.* 1903 [2] 893).
- $C_{20}H_{34}O_2$ 12) Verbindung (aus Asclepias syriaca L.) (*J. pr.* [2] 68, 406 *C.* 1904 [1] 105).
- $C_{20}H_{34}O_4$ 3) Monomenthylester d. Camphersäure. Zers. bei 310°. Na (*C.* 1903 [1] 162; *B.* 37, 1381 *C.* 1904 [1] 1442).

- $C_{20}H_{34}Cl_2$ 1) Bisabelendihydrochlorid. Sm. 79,3° (*Ar.* 235, 296). — *III, 404.
 $C_{20}H_{34}S_2$ 1) Dibornylidisulfid. Sm. 175—176° (*B.* 36, 867 *C.* 1903 [1] 972).
 $C_{20}H_{36}O$ 3) Cyklogallipharol. Sm. 46° (*Ar.* 242, 274 *C.* 1904 [1] 1654).
 $C_{20}H_{36}O_2$ 5) Aethylester d. Chaulmoograsäure. Sd. 230°₂₀ (*Soc.* 85, 854 *C.* 1904 [2] 348, 604).
 $C_{20}H_{36}O_5$ 3) isom. Ketoacetoxyloystearinsäure. Fl. (*B.* 36, 2659 *C.* 1903 [2] 826).
 $C_{20}H_{38}O_2$ 5) Aethylester d. α -Heptadeken- α -Carbonsäure. Sm. 15°; Sd. oberh. 300° (*G.* 34 [2] 84 *C.* 1904 [2] 694).
 $C_{20}H_{38}O_3$ *3) Aethylester d. Ricinolsäure. Sd. 258°₁₃ (*B.* 36, 784 *C.* 1903 [1] 823).
*7) Verbindung (aus Isovaleraldehyd). Sd. 260—290° (*B.* 36, 2063 *C.* 1903 [2] 357).
 $C_{20}H_{40}O_2$ *1) Arachinsäure (*M.* 23, 940 *C.* 1903 [1] 297).
*3) Aethylester d. Stearinsäure. Sd. 139° (*B.* 36, 4340 *C.* 1904 [1] 433).
8) Aethylester d. λ -Isostearinsäure. Fl. (*Ar.* 241, 19 *C.* 1903 [1] 698).
9) Verbindung (aus d. Glykol $C_{10}H_{22}O_2$). Sd. 267° u. Zers. (*M.* 24, 584 *C.* 1903 [2] 870).
 $C_{20}H_{40}O_3$ 3) Aethylester d. α -Oxyheptadekan- α -Carbonsäure. Sm. 62—63° (*Soc.* 85, 831 *C.* 1904 [2] 509).
- 20 III —
- $C_{20}H_8O_3Cl_4$ 1) Tetrachlorfluoran (aus 3,4-Dichlor-1-Oxybenzol). Sm. 284—285° (D.R.P. 156333 *C.* 1904 [2] 1673).
2) isom. Tetrachlorfluoran (Dichlorfluoresceinchlorid). Sm. 257° (D.R.P. 49057). — *II, 1209.
 $C_{20}H_8O_7Cl_4$ 1) Tetrachlordioxyfluorescein. Ca, Ba, HCl (*B.* 36, 1076 *C.* 1903 [1] 1182).
 $C_{20}H_8O_7Br_4$ 1) Tetrabromdioxyfluorescein (*B.* 36, 1083 *C.* 1903 [1] 1183).
2) Tetrabromphloroglucinphthalin (*B.* 36, 1073 *C.* 1903 [1] 1181).
 $C_{20}H_8N_2Br_3$ 1) Chinoxalin (aus Phenanthrenchinon u. 3,4,5-Tribrom-1,2-Diamidobenzol). Sm. noch nicht bei 250° (*Am.* 30, 79 *C.* 1903 [2] 356).
 $C_{20}H_{10}OS_2$ 1) Verbindung (aus Phenanthrenchinon u. Tiophten) (*B.* 37, 3352 *C.* 1904 [2] 1058).
 $C_{20}H_{10}O_3Cl_2$ *1) Dichlorfluoran (aus 3-Chlor-1-Oxybenzol). Sm. 252° (D.R.P. 156333 *C.* 1904 [2] 1673).
 $C_{20}H_{10}O_4N_4$ C 64,9 — H 2,7 — O 17,3 — N 15,1 — M. G. 370.
1) 2,7-Dinitrophenanthrophenazin. Sm. 356° (*B.* 36, 3740 *C.* 1904 [1] 37).
2) 4,5-Dinitrophenanthrophenazin. Sm. 262—264° (*B.* 36, 3748 *C.* 1904 [1] 38).
 $C_{20}H_{10}O_4J_4$ *1) Tetrajodphenolphthalin (D.R.P. 143596 *C.* 1903 [2] 403).
 $C_{20}H_{10}O_7Cl_2$ 1) Dichlordioxyfluorescein. Ba (*B.* 36, 1080 *C.* 1903 [1] 1182).
 $C_{20}H_{10}O_7Br_2$ 2) isom. Dibromdioxyfluorescein (*B.* 36, 1081 *C.* 1903 [1] 1182).
 $C_{20}H_{10}N_2Br_2$ 3) 2,7-Dibromphenanthrophenazin (aus 2,7-Dibrom-9,10-Phenanthrenchinon). Sm. 294—295° (*B.* 37, 3570 *C.* 1904 [2] 1402).
 $C_{20}H_{11}O_2N_3$ 3) 4-Nitrophenanthrophenazin. Sm. 217—218° (*B.* 36, 3736 *C.* 1904 [1] 36).
 $C_{20}H_{11}O_5N$ 2) 4,5-Imid d. 1-Benzoylnaphtalin-1²,4,5-Tricarbonsäure. Sm. oberh. 300° (*A.* 327, 101 *C.* 1903 [1] 1229).
 $C_{20}H_{11}O_6Br$ 1) 2',3-Lakton d. 1-Keto-3-Methoxyl-2-[2-Brom-2-Oxy-1,3-Diketo-2,3-Dihydro-2-Indenyl]-2,3-Dihydroindeno-3-Carbonsäure. Sm. 198° (*B.* 35, 3964 *C.* 1903 [1] 33).
 $C_{20}H_{11}O_7N$ C 63,7 — H 2,9 — O 29,7 — N 3,7 — M. G. 377.
1) β -Nitrofluorescein (D.R.P. 139428 *C.* 1903 [1] 679).
 $C_{20}H_{11}N_2Cl$ 1) Phenazin (aus 9,10-Phenanthrenchinon u. 4-Chlor-1,2-Diamidobenzol). Sm. 246° (*B.* 36, 4028 *C.* 1904 [1] 294).
 $C_{20}H_{11}N_2Br$ 1) 2-Bromphenanthrophenazin (aus 2-Brom-9,10-Phenanthrenchinon). Sm. 252—254° (*B.* 37, 3560 *C.* 1904 [2] 1401).
2) 3-Bromphenanthrophenazin (aus 3-Brom-9,10-Phenanthrenchinon). Sm. 249° (*B.* 37, 3572 *C.* 1904 [2] 1403).
 $C_{20}H_{11}N_2Br_3$ 1) 5,6,7-Tribrom-2,3-Diphenyl-1,4-Benzdiazin (*Am.* 30, 79 *C.* 1903 [2] 356).
 $C_{20}H_{12}ON_2$ 6) 1,1'-Dinaphto-2,2'-Orthodiazinoxid. Sm. 247—248° u. Zers. (*B.* 36, 4164 *C.* 1904 [1] 286; *B.* 36, 4173 *C.* 1904 [1] 287).

- $C_{20}H_{12}O_3N_2$ 3) 2-[4-Oxyphenylazo]-9,10-Anthrachinon. Sm. oberh. 290° u. Zers. (C. 1904 [1] 289).
- $C_{20}H_{12}O_4N_2$ 3) 2-[2,4-Dioxyphenylazo]-9,10-Anthrachinon. Sm. 261—263° u. Zers. (C. 1904 [1] 289).
C 51,7 — H 2,6 — O 27,6 — N 18,1 — M. G. 464.
- $C_{20}H_{12}O_5N_6$ 1) 1,4-Di[2,4-Dinitrobenzylidenamido]benzol. Sm. 252° (B. 37, 1871 C. 1904 [1] 1601).
- $C_{20}H_{12}N_2S_2$ 2) 2,2'-Diphenylbenzobithiazol (Dibenzyl-2,5-Disulfhydro-p-Diamidobenzol). Sm. 232—234° (Soe. 83, 1207 C. 1903 [2] 1328).
- $C_{20}H_{12}N_3Cl_3$ 1) 1,3,5-Tri[4-Chlorphenyl]-1,2,4-Triazol? Sm. 168—170° (J. pr. [2] 67, 500 C. 1903 [2] 251).
- $C_{20}H_{12}Cl_2S_2$ 3) Di[4-Chlor-1-Naphtyl]disulfid. Sm. 121—122° (C. r. 138, 982 C. 1904 [1] 1413).
- $C_{20}H_{12}Br_2S_2$ 1) Di[4-Brom-1-Naphtyl]disulfid. Sm. 131—132° (C. r. 138, 982 C. 1904 [1] 1413).
- $C_{20}H_{13}OCl$ 1) 9-Chlor-10-Keto-9-Phenyl-9,10-Dihydroanthracen. Sm. 164° (168 bis 169°) (B. [3] 17, 876; B. 37, 3338 C. 1904 [2] 1056). — *III, 199.
- $C_{20}H_{13}OBr$ 1) 9-Brom-10-Keto-9-Phenyl-9,10-Dihydroanthracen. Sm. 145—147° (B. 37, 3338 C. 1904 [2] 1056).
- $C_{20}H_{13}O_2N$ *7) 5-Phenylakridin-5'-Carbonsäure. Sm. 347° u. Zers. (B. 37, 1006 C. 1904 [1] 1276).
- $C_{20}H_{13}O_3N$ 11) α -Phenylpyrophthalon. Sm. 263° (B. 36, 3919 C. 1904 [1] 98).
- $C_{20}H_{13}O_3N$ 7) Benzoat d. 5-Oxy-1-Phenylbenzoxazol. Sm. 118,5° (B. 35, 4201 C. 1903 [1] 146).
- $C_{20}H_{13}O_3N$ 8) Benzoat d. 3-Oxy-5-Keto-5,10-Dihydroakridin. Sm. 265° (C. 1904 [2] 720).
- $C_{20}H_{13}O_4N$ 5) 4-Phenylamido-1,3-Dioxy-9,10-Anthrachinon (D.R.P. 145239 C. 1903 [2] 1100).
- $C_{20}H_{13}O_4N$ 6) 2-Phenylamido-1,4-Dioxy-9,10-Anthrachinon. Sm. 255—256° (D.R.P. 86150; D.R.P. 114199 C. 1900 [2] 884). — *III, 305.
- $C_{20}H_{13}O_4N_3$ 3) 3-Nitro-4,4'-Biphenylenamid d. Benzol-1,2-Dicarbonsäure. Sm. 225° (B. 37, 2882 C. 1904 [2] 594).
- $C_{20}H_{13}O_4N_5$ 2) 1-Phenyl-3,4-Di[3-Nitrophenyl]-1,2,5-Triazol? Sm. 174—175° (B. 36, 97 C. 1903 [1] 453).
- $C_{20}H_{13}O_5N$ C 69,2 — H 3,7 — O 23,1 — N 4,0 — M. G. 347.
- $C_{20}H_{13}O_5N$ 1) α -Oxim d. Hydrochinonphtalein. Sm. 268—269° (B. 36, 2962 C. 1903 [2] 1006).
- $C_{20}H_{13}O_5N$ 2) β -Oxim d. Hydrochinonphtalein + 5H₂O (B. 36, 2963 C. 1903 [2] 1006).
- $C_{20}H_{13}O_5N$ 3) γ -Oxim d. Hydrochinonphtalein (B. 36, 2963 C. 1903 [2] 1007).
- $C_{20}H_{13}O_5N$ *2) Dibenzoat d. 4-Nitro-1,3-Dioxybenzol. Sm. 109° (A. 330, 106 C. 1904 [1] 1076).
- $C_{20}H_{13}O_5N_5$ C 53,2 — H 2,9 — O 28,4 — N 15,5 — M. G. 451.
- $C_{20}H_{13}O_5N_5$ 1) Di[3-Nitrophenylamid] d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 225 bis 230° u. Zers. (C. 1903 [2] 431).
- $C_{20}H_{13}O_5N_5$ 2) Di[4-Nitrophenylamid] d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 197 bis 200° u. Zers. (C. 1903 [2] 431).
- $C_{20}H_{13}N_3Br_2$ 2) 4,4'-Dibrom-1'-Amido-1,2'-Azonaphtalin. Sm. 181—182° (Soe. 85, 751 C. 1904 [2] 448).
- $C_{20}H_{14}ON_2$ *11) 6-Oxy-2,3-Diphenyl-1,4-Benzdiazin. Sm. 251—252° (B. 37, 2280 C. 1904 [2] 434).
- $C_{20}H_{14}ON_2$ 13) isom. p-Nitroso-1,1'-Dinaphtylamin. Sm. 143° (B. 36, 4138 C. 1904 [1] 185).
- $C_{20}H_{14}ON_2$ 14) 2,2'-Azoxynaphtalin. Sm. 167—168° (B. 36, 4163 C. 1904 [1] 286; B. 36, 4173 C. 1904 [1] 288).
- $C_{20}H_{14}ON_2$ 15) α -Phenylpyrophthalin. Sm. oberh. 307° (B. 36, 3922 C. 1904 [1] 98).
- $C_{20}H_{14}O_4N_2$ 7) Phenyl-3-Nitrobenzoylamid d. Benzolcarbonsäure. Sm. 139° (Am. 30, 37 C. 1903 [2] 363).
- $C_{20}H_{14}O_4N_4$ 9) 1,4-Di[2-Nitrobenzylidenamido]benzol. Sm. 208° (B. 37, 1871 C. 1904 [1] 1601).

- $C_{26}H_{14}O_4N_4$ 10) Benzoat d. α -Oximido- α -Phenylazo- α -[3-Nitrophenyl]methan. Zers. bei 145° (*B.* 36, 73 *C.* 1903 [1] 452).
- $C_{26}H_{14}O_4Cl_6$ 1) Dimethylester d. 1,3-Dichlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure. Sm. 215° (*B.* 37, 220 *C.* 1904 [1] 588).
- 2) Dimethylester d. isom. 1,3-Dichlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (D. d. Hexachlor- γ -Truxillsäure). Sm. 180—182° (*B.* 37, 223 *C.* 1904 [1] 588).
- $C_{26}H_{14}O_5N_4$ 2) Verbindung (aus 1,3-Dinitrobenzol u. Aceton) (*B.* 37, 836 *C.* 1904 [1] 1201).
- $C_{26}H_{14}N_3Cl$ 1) 1-[2-Chlorphenyl]-3,5-Diphenyl-1,2,4-Triazol. Sm. 108° (*J. pr.* [2] 67, 493 *C.* 1903 [2] 251).
- 2) 1-[3-Chlorphenyl]-3,5-Diphenyl-1,2,4-Triazol. Sm. 107—109° (*J. pr.* [2] 67, 495 *C.* 1903 [2] 251).
- 3) 1-[4-Chlorphenyl]-3,5-Diphenyl-1,2,4-Triazol. Sm. 119° (*J. pr.* [2] 67, 499 *C.* 1903 [2] 251).
- $C_{26}H_{15}ON_8$ 15) 4-Nitroso-1,3-Dibenzylidenamidobenzol. Sm. 240° u. Zers. (*B.* 37, 2280 *C.* 1904 [2] 434).
- 16) Phenylhydrazon d. Isopyrophtalon + 2 H₂O. Sm. 127° (*B.* 36, 1662 *C.* 1903 [2] 40).
- 17) 5-Keto-1,3,4-Triphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 215—216° (217—218°) (*B.* 36, 1360 *C.* 1903 [1] 1340; *Am.* 31, 584 *C.* 1904 [2] 109).
- $C_{26}H_{15}O_2N$ *1) 2-Benzoylamidodiphenylketon (*C.* 1903 [1] 924).
- *2) 4-Benzoylamidodiphenylketon (*C.* 1903 [1] 924).
- *9) Phenylimid d. Benzolcarbonsäure. Sm. 164° (*C.* 1903 [1] 924; *C. r.* 137, 713 *C.* 1903 [2] 1428).
- $C_{26}H_{15}O_2N$ 13) o, p-Dimethylchinophthalon. Sm. 290° (*B.* 37, 3017 *C.* 1904 [2] 1409).
- 14) o, p-Dimethylisochinophthalon. Sm. 231° (*B.* 37, 3017 *C.* 1904 [2] 1409).
- 15) Benzoat d. 4-Benzylidenamido-1-Oxybenzol. Sm. 148° (*B.* 36, 4152 *C.* 1904 [1] 187).
- 16) Benzoat d. β -Oxy- α -Phenyl- β -[2-Pyridyl]äthen. Sm. 90—91°. HCl, Pikrat (*B.* 36, 124 *C.* 1903 [1] 470).
- $C_{26}H_{15}O_2N_3$ 9) 3-Phenylimidomethylazobenzol-3'-Carbonsäure. Sm. 128° (*B.* 36, 3474 *C.* 1903 [2] 1270).
- 10) Benzoat d. α -Oximido- α -Phenylazo- α -Phenylmethan. Sm. 126 bis 126,5° (*B.* 36, 65 *C.* 1903 [1] 451).
- $C_{26}H_{15}O_2P$ *1) Di[1-Naphtyl]phosphinsäure. Sm. 220° (*C. r.* 139, 675 *C.* 1904 [2] 1638).
- $C_{26}H_{15}O_3N$ *5) Benzoat d. 2-Benzoylamido-1-Oxybenzol. Sm. 183—184,5° (*B.* 36, 2051 *C.* 1903 [2] 383).
- *7) Benzoat d. 4-Benzoylamido-1-Oxybenzol. Sm. 231° (*B.* 37, 3941 *C.* 1904 [2] 1597).
- 16) 1-Benzozat d. 4-Hydroxylamido-1-Oxybenzol-4-Benzylidenäther. Sm. 205° (*B.* 36, 4151 *C.* 1904 [1] 187).
- 17) Phenylamid d. 2-Benzoxylbenzol-1-Carbonsäure. Sm. 180° (*G.* 34 [1] 271 *C.* 1904 [1] 1499).
- $C_{26}H_{15}O_3N_3$ 9) Phenylamid d. 4-Benzoxylphenylazoameisensäure. Sm. 168—169° u. Zers. (*A.* 334, 186 *C.* 1904 [2] 835).
- $C_{26}H_{15}O_4N$ 7) Diacetat d. Dihydronaphtophenoxazon. Sm. 206° (*B.* 36, 1809 *C.* 1903 [2] 206).
- $C_{26}H_{15}O_4N_3$ 6) p-Dinitro-1,2-Diphenyl-3-[2-Pyridyl]-R-Trimethylen. Sm. 112° (*B.* 36, 119 *C.* 1903 [1] 469).
- 7) Di[Phenylamid] d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 211 bis 212° u. Zers. (*C.* 1903 [2] 431; *B.* 37, 2610 *C.* 1904 [2] 522).
- $C_{26}H_{15}O_4Cl_5$ 1) Dimethylester d. 1-Chlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure. Sm. 176° (*B.* 37, 222 *C.* 1904 [1] 588).
- $C_{26}H_{15}O_5N_3$ 5) 3'-Nitro-4'-Amido-4-Benzoylamidobiphenyl-4'-Carbonsäure. Sm. 140° (*B.* 37, 2883 *C.* 1904 [2] 594).
- $C_{26}H_{15}O_6N_3$ C 61,1 — H 3,8 — O 24,4 — N 10,7 — M. G. 393.
- 1) $\alpha\alpha$ -Tri[β -Nitrophenyl]äthan. Sm. 200—202° (*B.* 36, 474 *C.* 1903 [1] 638).

- $C_{20}H_{15}O_8N_5$ C 56,9 — H 3,6 — O 22,8 — N 16,6 — M. G. 421.
 1) α -Phenyl- α -Benzyl- β -[2,4,6-Trinitrobenzyliden]hydrazin. Sm. 161° (B. 36, 961 C. 1903 [1] 969).
- $C_{20}H_{15}NSe$ 1) Benzyläther d. 5-Selenoakridin. Sm. 110°. (2HCl, PtCl₄), Pikrat (J. pr. [2] 68, 90 C. 1903 [2] 446).
- $C_{20}H_{15}N_3S$ *2) 1,4,5-Triphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 314 bis 315° (J. pr. [2] 67, 219 C. 1903 [1] 1260).
- $C_{20}H_{15}N_4Cl$ 1) 3-[3-Chlorphenyl]amido-1,5-Diphenyl-1,2,4-Triazol. Sm. 195 bis 196° (Am. 32, 366 C. 1904 [2] 1507).
- $C_{20}H_{16}ON_2$ 11) α -Imido- α -Phenylbenzoylamido- α -Phenylmethan. Sm. 95—97° (C. 1903 [2] 831).
 12) 2-[α -Phenylhydrazonäthyl]- β -Naphtofuran. Sm. 189° (B. 36, 2867 C. 1903 [2] 832).
 13) N-Methyl-o-Methylehinophtalin. Sm. 205° (B. 36, 3919 C. 1904 [1] 98).
- $C_{20}H_{16}OS_3$ 1) Dimethyläther d. 3,5-Dimerkapto-4-Thiocarbonyl-1-Keto-2,6-Diphenyl-1,4-Dihydrobenzol. Sm. 167° (B. 37, 1607 C. 1904 [1] 1444).
- $C_{20}H_{16}O_2N_2$ *28) Di[Phenylamid] d. Benzol-1,2-Dicarbonsäure. Sm. 245—250° u. Zers. (Am. 26, 456; R. 21, 339 C. 1903 [1] 156).
 34) Benzoat d. α -Phenyl- β -[2-Oxybenzyliden]hydrazin. Sm. 148—149° (B. 37, 3938 C. 1904 [2] 1596).
 35) Benzoat d. α -Phenyl- β -[4-Oxybenzyliden]hydrazin. Sm. 176—177° (B. 37, 3939 C. 1904 [2] 1597).
- $C_{20}H_{16}O_2N_4$ 7) 3,4-Methylenäther d. α -Phenylhydrazon- α -Phenylazo- α -[3,4-Di-oxyphenyl]methan. Sm. 156° (C. 1903 [2] 427).
 8) trans- γ -Phenylhydrazon- α -[2-Nitrophenyl]- γ -[2-Pyridyl]propen. Sm. 137° (B. 35, 4066 C. 1903 [1] 92).
- $C_{20}H_{16}O_2S_2$ 3) Dibenzyläther d. 2,5-Dimerkapto-1,4-Benzochinon. Sm. 223 bis 224° (A. 336, 152 C. 1904 [2] 1300).
- $C_{20}H_{16}O_3N_2$ 11) 3,4-Di[Benzoylamido]-1-Oxybenzol. Sm. 203—205° (B. 36, 4126 C. 1904 [1] 273).
- $C_{20}H_{16}O_4N_2$ *6) Cotoïnazobenzol. Sm. 183—184° (A. 329, 278 C. 1904 [1] 795).
 19) Diacetylbiindoxyl (C. 1903 [1] 35).
- $C_{20}H_{16}O_4N_4$ 3) pp'-Di[Acetylamido]indigo (M. 24, 10 C. 1903 [1] 775).
 4) 2,6-Diphenylazo-3,5-Dioxy-1-Methylbenzol-4-Carbonsäure (B. 37, 1413 C. 1904 [1] 1417).
- $C_{20}H_{16}O_5N_2$ 6) Diacetylisatid. Sm. 198° (B. 37, 945 C. 1904 [1] 1217).
- $C_{20}H_{16}N_2S$ 2) α -Rhodan-4-Amidotriphenylmethan. HCl (B. 37, 602 C. 1904 [1] 886).
- $C_{20}H_{16}N_4S$ 4) 4-Phenylamido-1,5-Diphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Di-sulfid. Sm. 132° (J. pr. [2] 67, 236 C. 1903 [1] 1262).
- $C_{20}H_{17}ON$ *6) Methyloxydhydrat d. 5-Phenylakridin. Sm. 140°. Methylsulfat, 4-Methylbenzolsulfonat (A. 327, 118, 122 C. 1903 [1] 1214, 1221; C. 1904 [2] 995).
 *11) Phenylbenzylamid d. Benzolcarbonsäure (B. 37, 2816 C. 1904 [2] 649).
 *15) 5-Oxy-10-Methyl-5-Phenyl-5,10-Dihydroakridin. Pikrat (B. 37, 576 C. 1904 [1] 897).
- 19) 4-Methylphenylamidodiphenylketon. Sm. 82° (D.R.P. 41751). — *III, 147.
 20) Verbindung (aus α' -Phenylpyrophthalon). Sm. 135° (B. 36, 3921 C. 1904 [1] 98).
- $C_{20}H_{17}ON_3$ 10) α -Benzylidenamido- $\alpha\beta$ -Diphenylharnstoff. Sm. 173° (B. 36, 1360 C. 1903 [1] 1340).
 11) α -Diphenylmethylenamido- β -Phenylharnstoff. Sm. 163° (B. 37, 3181 C. 1904 [2] 991).
 12) α -Nitroso- α -Diphenylmethyl- β -Benzylidenhydrazin. Sm. 96° u. Zers. (J. pr. [2] 67, 164 C. 1903 [1] 873).
 13) Diphenylmethylenhydrazid d. 2-Amidobenzol-1-Carbonsäure. Sm. 157° (J. pr. [2] 69, 99 C. 1904 [1] 730).
- $C_{20}H_{17}ON_5$ 4) α -Phenylazomethylenamido- $\alpha\beta$ -Diphenylharnstoff (Carbanilidoform-azyliwasserstoff). Sm. 178° u. Zers. (B. 36, 1364 C. 1903 [1] 1341).
 5) Benzylidenhydrazid d. 6-Benzylidenhydrazidopyridin-3-Carbon-säure. Sm. 313° (B. 36, 1112 C. 1903 [1] 1184).

- $C_{20}H_{17}OCl$ 1) Methyläther d. α -Chlor-4-Oxytriphenylmethan. Sm. 122–123° (124°) (*B.* 36, 2335 *C.* 1903 [2] 441; *B.* 36, 2789 *C.* 1903 [2] 882).
- $C_{20}H_{17}O_2N$ 14) 2-Acetyl-1-Phenyl-1,3-Dihydro-4,2- β -Naphthisoaxazin. Sm. 142° (*G.* 33 [1] 30 *C.* 1903 [1] 926).
- 15) Verbindung (aus Acetophenon, Benzoylchlorid u. Pyridin). Sm. 110°; Zers. oberh. 230° (*B.* 36, 3676 *C.* 1903 [2] 1442).
- $C_{20}H_{17}O_2N_3$ 15) α -Nitroso- α -Diphenylmethyl- β -[2-Oxybenzyliden]hydrazin. Sm. 100° u. Zers. (*J. pr.* [2] 67, 164 *C.* 1903 [1] 873).
- 16) Benzoat d. 4-Oxy-1-[2-Methylphenylamido]diazobenzol. Sm. 131 bis 132° (*B.* 36, 4148 *C.* 1904 [1] 186).
- 17) Benzoat d. 4-Oxy-1-[4-Methylphenylamido]diazobenzol. Sm. 148,5° (*B.* 36, 4147 *C.* 1904 [1] 186).
- $C_{20}H_{17}O_2N_5$ *2) Rubazonsäure. Sm. 181° (*C. r.* 139, 135 *C.* 1904 [2] 588).
- $C_{20}H_{17}O_3N_3$ *8) Phenylamidoformiat d. 4-Oxy- α -Diphenylharnstoff. Sm. 238 bis 239° (*J. pr.* [2] 67, 340 *C.* 1903 [1] 1339).
- 10) Benzoat d. β -[4-Oxyphenyl]amido- α -Phenylharnstoff. Sm. 203 bis 204° (*A.* 334, 189 *C.* 1904 [2] 835).
- $C_{20}H_{17}O_4N$ *1) Berberin. HNO_3 (*Soc.* 83, 619 *C.* 1903 [1] 1364; *C.* 1903 [2] 1011).
- 13) Verbindung (aus Cotarnin u. Vanillin). $HCl + H_2O$ (*B.* 37, 1963 *C.* 1904 [2] 44).
- $C_{20}H_{17}O_5N$ *1) Protopin (*Ar.* 241, 319 *C.* 1903 [2] 1284).
- $C_{20}H_{17}O_5Cl_3$ 1) Verbindung (aus Zimmtsäure u. Trichloressigsäure) (*R.* 21, 353 *C.* 1903 [1] 150).
- $C_{20}H_{17}O_7N_3$ *1) Verbindung (aus d. Methylenäther d. 3,4-Dioxyphenylisonitrosodimethylketon) (*A.* 332, 332 *C.* 1904 [2] 652).
- $C_{20}H_{17}NS$ 2) 4-Benzylidenamido-4-Methyldiphenylsulfid. Sm. 99° (*J. pr.* [2] 68, 272 *C.* 1903 [2] 993).
- $C_{20}H_{17}N_2Cl$ 4) α -Chlor- α -[4-Methylphenyl]imido- α -Diphenylamidomethan. Sm. 105 bis 107°; Sd. 240–250°₃₀ (*B.* 37, 966 *C.* 1904 [1] 1002).
- $C_{20}H_{15}ON_2$ *4) 2-Benzoylamido-1-Phenylamidomethylbenzol (*B.* 37, 3118 *C.* 1904 [2] 1317).
- *6) α -Diphenyl- β -[4-Methylphenyl]harnstoff (*B.* 37, 965 *C.* 1904 [1] 1002).
- 26) α -Phenylhydroxylamido- α -Benzylimido- α -Phenylmethan. Fl. HCl (*B.* 36, 20 *C.* 1903 [1] 510).
- 27) α -Phenylhydroxylamido- α -[4-Methylphenyl]imido- α -Phenylmethan. Sm. 191°. HCl (*B.* 36, 21 *C.* 1903 [1] 510).
- 28) α -[4-Methylphenyl]hydroxylamido- α -Phenylimido- α -Phenylmethan. Sm. 175°. HCl (*B.* 36, 20 *C.* 1903 [1] 510).
- 29) Verbindung (aus d. Säure $C_{21}H_{15}O_3N_2$). Sm. 217–218° (*B.* 36, 2126 *C.* 1903 [2] 365).
- $C_{20}H_{15}ON_4$ 13) α -Benzylidenamido- β -Phenylamido- α -Phenylharnstoff. Sm. 206 bis 207° (*B.* 36, 1361 *C.* 1903 [1] 1340).
- 14) α -Phenylhydrazon- α -Phenylureido- α -Phenylmethan. Sm. 168° u. Zers. (*B.* 36, 2485 *C.* 1903 [2] 490).
- $C_{20}H_{15}O_2N_2$ 20) 3,5,3',5'-Tetramethylindigo (D.R.P. 61711). — *II, 969.
- $C_{20}H_{15}O_2N_4$ 17) α -Phenyl- α -Benzyl- β -[4-Nitro-2-Amidobenzyliden]hydrazin. Sm. 155° (*B.* 37, 1863 *C.* 1904 [1] 1600).
- 18) 4,6-Di[Phenylazo]-3,5-Dioxy-1,2-Dimethylbenzol. Sm. 229° u. Zers. + Eisessig (*A.* 329, 307 *C.* 1904 [1] 794).
- $C_{20}H_{15}O_2N_8$ *C.* 64,2 — H 4,8 — O 8,6 — N 22,4 — M. G. 374.
- 1) 1,4-Di[β -Phenylsemicarbazol]-1,4-Dihydrobenzol. Zers. bei 249° (*A.* 334, 168, 171 *C.* 1904 [2] 834).
- $C_{20}H_{15}O_2S_2$ 1) 2,5-Dibenzyläther d. 2,5-Dimerkapto-1,4-Dioxybenzol. Sm. 134 bis 135° (*A.* 336, 153 *C.* 1904 [2] 1300).
- $C_{20}H_{15}O_3N_2$ 3) Felicinsäurediazobenzol. Sm. 209° (*A.* 329, 298 *C.* 1904 [1] 797).
- $C_{20}H_{15}O_3N_4$ *6) 2-Methyläther d. 2,4,6-Trioxo-3,5-Diphenylazo-1-Methylbenzol. Sm. 204° (*A.* 329, 285 *C.* 1904 [1] 796).
- $C_{20}H_{15}O_4N_4$ *4) α -Phenyl- α - β -Di[2-Nitrobenzyl]hydrazin (oder $C_{20}H_{15}O_4N_4$) (*M.* 25, 602 *C.* 1904 [2] 1294).
- 5) Dibenzoylderivat d. Bisdiazoceton. Sm. 170° (*G.* 34 [1] 205 *C.* 1904 [1] 1485).
- $C_{20}H_{15}O_4N_6$ *C.* 59,1 — H 4,4 — O 15,8 — N 20,7 — M. G. 406.
- 1) α -Disemicarbazon- β -Phthalyl- α -Phenylbutan. Sm. 252° (*B.* 37, 582 *C.* 1904 [1] 940).

- $C_{20}H_{18}O_4Br_2$ 2) Dimethylester d. 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure. Sm. 172° (B. 37, 219 C. 1904 [1] 588).
- 3) Dimethylester d. isom. 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (D. d. Dibrom- γ -Truxillsäure). Sm. 163° (B. 37, 223 C. 1904 [1] 588).
- $C_{20}H_{18}O_4S$ 1) Sulfid d. β -Merkapto- $\alpha\gamma$ -Diketo- α -Phenylbutan (Thiobenzoylacetone). Sm. 95° . NH₃, Na, Fe, Cu (Bl. [3] 29, 528 C. 1903 [2] 243).
- 2) 4-Oxytriphenylmethan-4-Methyläther- α -Sulfonsäure. Na + 5H₂O (B. 36, 2790 C. 1903 [2] 882).
- $C_{20}H_{18}O_4S_2$ 3) α -Phenylsulfon- α -Benzylsulfon- α -Phenylmethan. Sm. 173 — 174° (B. 36, 301 C. 1903 [1] 500).
- $C_{20}H_{18}O_5N_2$ 2) Nitrocusparin (C. 1903 [2] 1011).
- 3) Anthranilopapaverin. Sm. 244 — 245° (B. 37, 1937 C. 1904 [2] 129).
- $C_{20}H_{18}O_6N_2$ 4) Bisnitrosobenzoylacetone. Sm. 65° u. Zers. (B. 37, 1535 C. 1904 [1] 1609).
- 5) Tetramethyläther d. Tetraoxyindigo. subl. oberh. 300° (B. 36, 2932 C. 1903 [2] 888).
- 6) $\alpha\beta$ -Di[2-Acetylamidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (A. 332, 276 C. 1904 [2] 701).
- $C_{20}H_{18}O_6Cl_4$ 1) 4,4'-Diacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan- $\alpha\beta$ -Dimethyläther. Sm. 164° (A. 325, 57 C. 1903 [1] 462).
- $C_{20}H_{18}O_7N_2$ 5) Tetramethyläther d. 6,7-Dioxy-1-[6-Nitro-3,4-Dioxybenzoyl]-isochinolin (Nitropapaveraldin). Sm. 199 — 200° (B. 37, 1936 C. 1904 [2] 129).
- $C_{20}H_{18}O_7N_4$ C 56,3 — H 4,2 — O 26,3 — N 13,1 — M. G. 426.
- 1) 2-Acetyläthylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 77 — 78° (Soc. 83, 1339 C. 1904 [1] 99).
- $C_{20}H_{18}N_3J_2$ 3) Phenyl-2,3'-Dimethylazobenzol-4'-Jodoniumjodid. Zers. bei 143° (J. pr. [2] 69, 325 C. 1904 [2] 35).
- $C_{20}H_{19}ON$ 5) α -Oxy-4-Methylamidotriphenylmethan (B. 37, 2858 C. 1904 [2] 775).
- 6) 2-Oxy-1-(α -Isopropylidenamidobenzyl)naphthalin. Sm. 124° (G. 33 [1] 33 C. 1903 [1] 926).
- 7) Phenyläther d. Dibenzylhydroxylamin. Sm. 125 — 126° (G. 33 [2] 459 C. 1904 [1] 655).
- $C_{20}H_{19}ON_3$ 10) Phenylamid d. Di[Phenylamido]essigsäure. Sm. 141 — 142° (A. 332, 262 C. 1904 [2] 699).
- $C_{20}H_{19}ON_5$ 3) 4-[4-(Methyl- α -Cyanäthylamido)phenylimido]-5-Keto-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 190° (B. 36, 760 C. 1903 [1] 962).
- $C_{20}H_{19}O_2N$ 8) Di[β -Keto- α -Benzylidenpropyl]amin. HCl (Soc. 83, 379 C. 1903 [1] 845, 1144).
- 9) 6-Phenylimido-4-Keto-5-Acetyl-2-Phenylhexahydrobenzol. Sm. 124 — 125° (B. 37, 3383 C. 1904 [2] 1219).
- 10) Verbindung (aus β -Naphtholbenzalamine). Sm. 103° (G. 33 [1] 28 C. 1903 [1] 926).
- $C_{20}H_{19}O_3N$ *1) Cusparin (C. 1903 [2] 1010).
- 8) 4-Acetylamido-1-[2,5-Dimethylbenzoyl]-2-Methylbenzofuran. Sm. 200 — 205° u. Zers. (B. 36, 1262 C. 1903 [1] 1184).
- $C_{20}H_{19}O_4N$ *1) Aethylester d. 4,5-Diketo-2-Phenyl-1-[4-Methylphenyl]tetrahydropyrrrol-3-Carbonsäure. Sm. 159° (C. r. 139, 212 C. 1904 [2] 656).
- 4) Anhydrooctarnincumaron. Sm. 66 — 71° . (2HCl, PtCl₄) (B. 37, 2742 C. 1904 [2] 544).
- 5) Monooxim d. 3-Keto-2-Benzoyl-1-Phenyl-R-Pentamethylen-5-Carbonsäuremethylester. Sm. 184 — 185° (A. 326, 371 C. 1903 [1] 1125).
- $C_{20}H_{19}O_4N_3$ 2) Diazopapaverin. Sm. 281° (B. 37, 1934 C. 1904 [2] 129).
- 3) Monosemicarbazone d. 3-Keto-2-Benzoyl-1-Phenyl-R-Pentamethylen-5-Carbonsäure. Sm. 236 — 237° u. Zers. Ag (A. 326, 378 C. 1903 [1] 1126).
- $C_{20}H_{19}O_4N_5$ C 61,1 — H 4,8 — O 16,3 — N 17,8 — M. G. 393.
- 1) 3,4-Dinitro-4'-Amido-4''-Dimethylamidotriphenylmethan. Sm. 209° (J. pr. [2] 69, 239 C. 1904 [1] 1268).
- $C_{20}H_{19}O_5N$ *1) Papaveraldin. Sm. 210° (B. 37, 1936 C. 1904 [2] 129).
- *3) Chelidonin (C. 1904 [1] 1224).
- *4) Protopin. Sm. 204 — 205° (C. 1903 [1] 1142).

- $C_{20}H_{19}O_5N$ 8) 2',2'-Diäthyläther d. 8-Nitroso-7-Oxy-4-Methylen-2-[2,4-Dioxyphenyl]-1,4-Benzpyran. Sm. 170–178° (*B.* 37, 360 *C.* 1904 [1] 671).
- $C_{20}H_{19}O_5N_3$ 2) Aethylester d. α -Phenylazo-4-Acetylamidobenzoylbrenztraubensäure. Sm. 123–124° (*B.* 36, 2698 *C.* 1903 [2] 952).
- $C_{20}H_{19}O_5N_3$ 3) Diazopapaveraldin. Sulfat (*B.* 37, 1939 *C.* 1904 [2] 129).
- $C_{20}H_{19}N_3S$ 3) β -Diphenylmethamido- α -Phenylthioharnstoff (Benzhydrylphenylthiosemicarbazid). Sm. 163–164° (*J. pr.* [2] 67, 171 *C.* 1903 [1] 874).
- $C_{20}H_{20}ON_2$ 13) Methyläther d. α -Oxy-4,4'-Diamidoditriphenylmethan. Sm. 161 bis 163° (*B.* 37, 2863 *C.* 1904 [2] 776).
- 14) 4-Dimethylamidophenyl-4-Methylamido-1-Naphtylketon. Sm. 212° (*D.R.P.* 84655; *C.* 1903 [1] 87; *B.* 37, 1902 *C.* 1904 [2] 115). — *III, 194.
- $C_{20}H_{20}O_3N_2$ 7) 4,6-Dioxy-1,3-Di[4-Amidobenzyl]benzol. Sm. 212–213°. (2HCl, PtCl₄), H₂SO₄ (*M.* 23, 980 *C.* 1903 [1] 288).
- 8) Aethylester d. 6-Methyl-1,3-Diphenyl-1,4-Dihydro-1,2-Diazin-5-Carbonsäure. Sm. 114–116° (*A.* 331, 310 *C.* 1904 [2] 45).
- 9) Verbindung (aus α -Cyanpropionsäureäthylester). Sm. 195° u. Zers. (*C.* 1903 [2] 713).
- $C_{20}H_{20}O_3N_4$ 4) Verbindung (aus Dibenzylhydroxylamin). Sm. 115° (*B.* 36, 2289 *C.* 1903 [2] 564).
- $C_{20}H_{20}O_3N_6$ C 63,8 — H 5,3 — O 8,5 — N 22,3 — M. G. 376.
- 1) 3,6-Di[4-Acetylamidobenzyl]-1,2,4,5-Tetrazin. Sm. 205° (*B.* 35, 3939 *C.* 1903 [1] 39).
- $C_{20}H_{20}O_3S_2$ 1) Dibenzyläther d. 2,5-Dimerkapto-1,4-Diketoexahydrobenzol. Sm. 160–163° (*A.* 336, 150 *C.* 1904 [2] 1300).
- $C_{20}H_{20}O_3N_2$ 3) Anhydrocotarninbenzyleyanid. Sm. 134°. HCl (*B.* 37, 3336 *C.* 1904 [2] 1155).
- $C_{20}H_{20}O_4N_2$ 13) Aethylester d. γ -Phenylhydrazon- α -[3,4-Dioxyphenyl]- α -Buten-3,4-Methylenäther- β -Carbonsäure. Sm. 135° (*B.* 37, 1704 *C.* 1904 [1] 1497).
- 14) Diacetat d. Di[6-Oxy-3-Methylbenzyliden]hydrazin. Sm. 163° (*B.* 37, 3187 *C.* 1904 [2] 992).
- $C_{20}H_{20}O_5N_2$ *1) Papaveraldoxim (*C.* 1903 [1] 844).
- 3) Tetramethyläther d. 6,7-Dioxy-1-[6-Amido-3,4-Dioxybenzoyl]isochinolin (Amidopapaveraldin). Sm. 171–172° (*B.* 37, 1938 *C.* 1904 [2] 129).
- 4) Nitropapaverin. Sm. 181,5°. HCl, (2HCl, PtCl₄), HNO₃, HNO₂, Pikrat (*C.* 1903 [1] 844).
- $C_{20}H_{20}O_6N_2$ *4) Tetramethyläther d. 6,7-Dioxy-1-[6-Nitro-3,4-Dioxybenzyl]isochinolin (Nitropapaverin). Sm. 186–187° (*B.* 37, 1930 *C.* 1904 [2] 128).
- 17) Diäthylester d. $\alpha\beta$ -Dibenzoylhydrazin- $\alpha\beta$ -Dicarbonsäure. Sm. 83° (*P.* GUTMANN, Dissert., Heidelberg 1903).
- 18) Diacetat d. 4,4'-Di[Acetylamido]-2,2'-Dioxybiphenyl. Sm. 128° (*J. pr.* [2] 67, 271 *C.* 1903 [1] 1221).
- $C_{20}H_{20}O_6N_4$ C 58,2 — H 4,8 — O 23,3 — N 13,6 — M. G. 412.
- 1) 1-Diäthylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 95–95,5° (*Soc.* 83, 1337 *C.* 1904 [1] 99).
- 2) 2-Diäthylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 116° (*Soc.* 83, 1339 *C.* 1904 [1] 99).
- $C_{20}H_{20}O_7N_2$ 4) Aethylester d. β -Acetyl- $\alpha\gamma$ -Di[4-Nitrophenyl]propan- β -Carbonsäure (Ac. d. Di[4-Nitrobenzyl]acetessigsäure). Sm. 139–140° (*G.* 32 [2] 356 *C.* 1903 [1] 629).
- $C_{20}H_{20}O_8N_2$ 2) Di[β -Nitro-2,4-Dimethylphenylester] d. Bernsteinsäure. Sm. 169° (*B.* 35, 4080 *C.* 1903 [1] 74).
- $C_{20}H_{20}O_8N_4$ C 54,0 — H 4,5 — O 28,0 — N 12,6 — M. G. 222.
- 1) Benzalacetonepseudonitrosit. Sm. 109–110° u. Zers. (*A.* 329, 257 *C.* 1904 [1] 32).
- $C_{20}H_{20}O_{10}N_2$ 2) Di[3-Nitrobenzyliden]sorbit. Sm. 220° (*Bl.* [3] 29, 505 *C.* 1903 [2] 237).
- $C_{20}H_{20}O_{12}N_2$ C 50,9 — H 4,2 — O 40,0 — N 5,8 — M. G. 480.
- 1) Dinitrotetramethylhämatoxylon. Sm. 187–192° u. Zers. (*B.* 36, 399 *C.* 1903 [1] 587; *M.* 25, 888 *C.* 1904 [2] 1313). — *III, 490.
- $C_{20}H_{20}N_2S_4$ 1) Dialläläther d. Di[Phenylimidomerkaptomethyl]disulfid. Sm. 74 bis 75° (*B.* 36, 2265 *C.* 1903 [2] 562).

- $C_{30}H_{21}ON$ 8) α -[1-Piperidyl]- γ -Keto- $\alpha\gamma$ -Diphenylpropen. Sm. 99—100° (Soc. 85, 1323 C. 1904 [2] 1645).
- $C_{30}H_{21}ON_3$ *1) Rosanilin (B. 37, 3031 C. 1904 [2] 1010).
3) Methyläther d. α -Oxy-4,4',4''-Triamidotriphenylmethan. Sm. 105° + $(C_2H_5)_2O$ + C_6H_6 (Sm. 135°) (B. 37, 2874 C. 1904 [2] 777).
- $C_{20}H_{21}O_2N$ 4) Monoxim d. 2-Keto-1- γ -Keto- $\alpha\gamma$ -Diphenylpropyl]-R-Pentamethylen. Sm. 154—155° (B. 35, 3974 C. 1903 [1] 37).
- $C_{30}H_{21}O_3N$ 2) Aethylester d. α -Phenylimido- γ -Keto- α -Phenyl- β -Methylbutan- β -Carbonsäure. Sm. 158° (D.R.P. 33497). — *II, 1079.
- $C_{20}H_{21}O_4N$ *2) Tetrahydroberberin (i-Canadin) (Soc. 83, 618 C. 1903 [1] 590).
*3) Papaverin. HJ, Ferrocyanat + $5H_2O$, CHNS, Oxalat (C. 1903 [2] 385; Soc. 83, 616 C. 1903 [1] 590; J. pr. [2] 68, 193 C. 1903 [2] 838).
8) Acetylmorphotebain. Sm. 183° (B. 17, 531). — III, 910.
9) Anhydrocortarninacetophenon. Sm. 126°. (2HCl, $PtCl_4$) (B. 37, 215 C. 1904 [1] 591).
10) Verbindung (aus Tetramethoxydesoxybenzoïnacetalamin). Sm. 162° (A. 329, 60 C. 1903 [2] 1448).
C 65,4 — H 5,7 — O 17,4 — N 11,4 — M. G. 367.
- $C_{30}H_{21}O_4N_3$ 1) Monosemicarbazon d. $\alpha\delta$ -Diketo- $\alpha\delta$ -Diphenylbutan- β -Carbonsäure. Sm. 138—140° (A. 331, 317 C. 1904 [2] 46).
C 60,7 — H 5,3 — O 16,2 — N 17,7 — M. G. 395.
- $C_{30}H_{21}O_4N_5$ 1) Benzylidenhydrazid d. Benzoylbis[Amidoacetyl]amidoessigsäure. Sm. 264° (J. pr. [2] 70, 95 C. 1904 [2] 1035).
- $C_{20}H_{21}O_5N$ 4) 4-Acetat d. 4-Oximido-6-Oxy-2-[4-Oxyphenyl]-2,3-Dihydrobenzopyran-2'-Methyläther-6-Aethyläther. Sm. 168° (B. 33, 1484). — *III, 560.
- $C_{20}H_{21}O_7N$ 2) Oxim d. Tetramethylhämatoxylon (B. 36, 3714 C. 1904 [1] 38).
- $C_{20}H_{21}N_3Br_2$ 1) 8, 8'-Dibrom-5, 5'-Diazoamido-1, 2, 3, 4, 1', 2', 3', 4'-Oktohydro-naphtalin (Soc. 85, 748 C. 1904 [2] 447).
- $C_{20}H_{22}O_2N_2$ 22) Dehydrochinin. Sm. 185°. HCl + xH_2O , Oxalat + xH_2O , (4 + $3H_2SO_4$, 2HJ, J_4) (J. pr. [2] 69, 217 C. 1904 [1] 1448).
23) Base (aus Phenacetin). Sm. 220°. HCl (D.R.P. 137121 C. 1903 [1] 107).
24) Phenylpyrazol d. 3-Keto-2-Benzoyl-1-Phenyl-R-Pentamethylen-5-Carbonsäuremethylester. Sm. 149—150° (A. 326, 378 C. 1903 [1] 1126).
- $C_{30}H_{22}O_3N_2$ 7) Succinein d. m-Dimethylamidophenol (D.R.P. 51983, 54997). — *III, 571.
8) Aethylester d. α -Phenylhydrazon- δ -Keto- α -Phenylpentan- γ -Carbonsäure. Sm. 152° (A. 331, 309 C. 1904 [2] 45).
- $C_{20}H_{22}O_3N_4$ 4) Benzylidenhydrazid d. β -Benzoylamidoacetylamidobuttersäure. Sm. 154° (J. pr. [2] 70, 208 C. 1904 [2] 1459).
5) Benzylidenhydrazid d. α -[α -Benzoylamidopropionyl]amidopropionsäure. Sm. 230° (J. pr. [2] 70, 151 C. 1904 [2] 1394).
- $C_{30}H_{22}O_4N_2$ 21) Diäthyläther d. β -Phenylazo- $\alpha\gamma$ -Diketo- α -[2,4-Dioxyphenyl]butan. Sm. 82—83° (B. 37, 356 C. 1904 [1] 670).
22) Tetramethyläther d. 6, 7-Dioxy-1-[6-Amido-3,4-Dioxybenzyl]iso-chinolin + H_2O (Amidopapaverin). Sm. 116° (143° wasserfrei) (B. 37, 1933 C. 1904 [2] 129).
23) Aethylester d. α -Benzoylamidoacetylamido- β -Phenylpropionsäure. Sm. 98° (J. pr. [2] 70, 227 C. 1904 [2] 1461).
- $C_{30}H_{22}O_4N_4$ *2) Diäthylester d. Di[Phenylhydrazon]äthan- $\alpha\beta$ -Dicarbonsäure. Sm. 154—155° (Bl. [3] 31, 95 C. 1904 [1] 581).
8) 2,4,2',4'-Tetra[Acetylamido]biphenyl + $3H_2O$. Sm. 284° (wasserfrei) (J. pr. [2] 66, 562 C. 1903 [1] 518).
9) $\alpha\beta$ -Di[α -Benzoylamidopropionyl]hydrazin. Sm. 262° (J. pr. [2] 70, 147 C. 1904 [2] 1394).
10) 2-Oxybenzylidenhydrazid d. β -Benzoylamidoacetylamidobuttersäure. Sm. 186° (J. pr. [2] 70, 209 C. 1904 [2] 1460).
11) Di[α -Phenyläthylidenhydrazid] d. d-Weinsäure. Sm. 232° (Soc. 83, 1365 C. 1904 [1] 85).
C 53,5 — H 5,3 — O 15,6 — N 20,5 — M. G. 410.
- $C_{20}H_{22}O_4N_6$ 1) Benzylidenhydrazid d. β -Phenylureidoacetylamidoacetylamido-essigsäure. Sm. 247,5° (J. pr. [2] 70, 261 C. 1904 [2] 1465).

- $C_{20}H_{23}ON$ 2) d-1-[β -Phenylisobutyryl]amido-2-Methyl-2,3-Dihydroinden. Sm. 152° (Soc. 85, 448 C. 1904 [1] 1445).
- $C_{20}H_{23}O_2N$ 3) Dimethylapomorphimethin. Fl. HCl (B. 35, 4390 C. 1903 [1] 339).
- $C_{20}H_{23}O_2N_3$ C 71,2 — H 6,8 — O 9,5 — N 12,5 — M. G. 337.
- $C_{20}H_{23}O_3N$ 1) Isonitrosomethylcinchotoxin (B. 33, 3225). — *III, 637.
- 2) Aethyl ester d. α -Phenylamido- γ -Keto- α -Phenyl- β -Methylbutan- β -Carbonsäure. Sm. 123°. HCl (Soc. 85, 1000 C. 1904 [2] 704).
- 6) Aethyl ester d. α -[2-Methylphenyl]amido- γ -Keto- α -Phenylbutan- β -Carbonsäure. Sm. 89—90° (Soc. 85, 1177 C. 1904 [2] 1216).
- $C_{20}H_{28}O_6N_3$ 7) Triacetylderivat d. 4-Amido-4'-Dimethylamidodiphenylamin. Sm. 142° (J. pr. [2] 69, 228 C. 1904 [1] 1268).
- $C_{20}H_{23}O_4N_3$ 2) 2-Semicarbazon-1,4,5-Triox-1,3-Dimethyl-4,5-Diphenyl-R-Pentamethylen. Sm. 165—180° u. Zers. (Soc. 83, 300 C. 1903 [1] 878).
- 3) Tolpyrinorthoform. Sm. 86° (A. 325, 319 C. 1903 [1] 769).
- 4) isom. Tolpyrinorthoform. Sm. 79—80° (A. 325, 319 C. 1903 [1] 769).
- 5) Benzylester d. β -Benzoylamidoacetylamidopropylamidoameisensäure. Sm. 152—153° (J. pr. [2] 70, 218 C. 1904 [2] 1460).
- $C_{20}H_{23}O_5N$ 2) Diäthylester d. 2,5-Dimethyl-1-[4-Acetylphenyl]pyrrol-3,4-Dicarbonsäure. Sm. 114° (B. 36, 394 C. 1903 [1] 723).
- $C_{20}H_{23}O_6P$ *2) Di[α -Benzoxylisopropyl]unterphosphorige Säure (C. 1904 [2] 1708).
- $C_{20}H_{23}O_8N$ C 59,3 — H 5,7 — O 31,6 — N 3,4 — M. G. 405.
- 1) Verbindung (aus Triäthylamin u. Pyrogallolcarbonat). Sm. 111° (B. 37, 111 C. 1904 [1] 584).
- $C_{20}H_{24}ON_2$ *5) Methylcinchotoxin. Sm. 74—75° (B. 37, 1675 C. 1904 [1] 1526).
- 11) α -Acetyl- α -[2,5-Dimethylbenzyl]- β -[2,5-Dimethylbenzyliden]-hydrazin. Sm. 137° (C. 1903 [1] 141).
- $C_{20}H_{24}OS$ 1) Benzyläther d. γ -Keto- ϵ -Merkapto- ϵ -Phenyl- β -Methylpentan. Sm. 62—63° (B. 37, 506 C. 1904 [1] 883).
- $C_{20}H_{24}O_2N_2$ *18) Chinin. Nitroprussidwasserstoffsalz (C. 1903 [2] 385; C. r. 136, 129 C. 1903 [1] 524; Soc. 83, 624 C. 1903 [1] 1364; Ar. 241, 54 C. 1903 [1] 1005; C. 1904 [2] 1742).
- *20) Conchinin (Chinidin). Nitroprussidwasserstoffsalz + 2H₂O (C. 1903 [2] 385; C. r. 136, 137 C. 1903 [1] 525).
- 40) 4,4'-Di[Acetyläthylamido]biphenyl. Sm. 167° (166,5—177,5°) (C. 1903 [1] 1128; B. 35, 4184 C. 1903 [1] 143).
- 41) Di[Phenylamid] d. β -Methylpentan- $\alpha\delta$ -Dicarbonsäure. Sm. 158° (C. r. 138, 210 C. 1904 [1] 663).
- 42) Di[Phenylamid] d. β -Aethylbutan- $\alpha\alpha$ -Dicarbonsäure. Sm. 219—220° (B. [3] 31, 351 C. 1904 [1] 1134).
- $C_{20}H_{24}O_2N_4$ 2) $\alpha\gamma$ -Di[2,4-Dimethylphenylnitrosamido]- α -Buten. Sm. 79—80° (A. 329, 222 C. 1903 [2] 1428).
- $C_{20}H_{24}O_7J_2$ 1) Verbindung (aus Thymol) (M. 24, 74 C. 1903 [1] 767).
- $C_{20}H_{24}O_8S$ 2) γ -Keto- ϵ -Benzylsulfon- ϵ -Phenyl- β -Methylpentan. Sm. 133—134° (B. 37, 506 C. 1904 [1] 883).
- $C_{20}H_{24}O_4N_2$ 1) 6-Methyläther-4,5-Methylenäther-1⁴-Aethyläther d. 4,5,6-Triox-2-[β -Methylamidoäthyl]-1-[4-Oxyphenyl]imidomethylbenzol (Cotarnin-p-Aethoxyanil). Sm. 120° (B. 36, 1528 C. 1903 [2] 51).
- 12) Metochinon. Sm. 135° u. Zers. (C. 1903 [1] 1129).
- 13) Di[Phenylamidoformiat] d. α -Dioxyhexan. Sm. 171—172° (C. r. 136, 245 C. 1903 [1] 583).
- $C_{20}H_{24}O_6N_2$ 3) Nitrosoisotetrahydropapaverin. Sm. 138° (B. 37, 3322 C. 1904 [2] 1155).
- 4) Diäthylester d. 1-Phenacetylamido-2,5-Dimethylpyrrol-3,4-Dicarbonsäure. Sm. 146—147° (B. 35, 4316 C. 1903 [1] 336).
- $C_{20}H_{24}O_5N_4$ C 60,0 — H 6,0 — O 20,0 — N 14,0 — M. G. 400.
- 1) Methyl ester d. δ -Oximido- ϵ -Phenylhydroxylhydrazon- γ -Phenylamido- γ -Oxy- β -Methylpentan- β -Carbonsäure. Sm. 108—110° u. Zers. (Soc. 83, 1243 C. 1903 [2] 1421).
- $C_{20}H_{24}O_8N_4$ 2) 1-Phenylhydrazid d. 2,5-Dimethylpyrrol-1-Oxaminsäure-3,4-Dicarbonsäure. Sm. 194—195° (B. 37, 2427 C. 1904 [2] 341).
- $C_{20}H_{24}O_5N_2$ C 57,1 — H 5,7 — O 30,5 — N 6,7 — M. G. 420.
- 1) Anetholpseudonitrosit. Zers. bei 120° (A. 329, 261 C. 1904 [1] 32).

- $C_{20}H_{24}O_9N_4$ C 51,7 — H 5,2 — O 31,0 — N 12,1 — M. G. 464.
 1) Di[4-Nitrobenzyl]hydrazon d. Fruktose. Sm. 112° (*R.* 22, 439 *C.* 1904 [1] 15).
 2) Di[4-Nitrobenzyl]hydrazon d. Galaktose. Sm. 153° (*R.* 22, 439 *C.* 1904 [1] 15).
 3) Di[4-Nitrobenzyl]hydrazon d. Glykose. Sm. 142° (*R.* 22, 439 *C.* 1904 [1] 15).
- $C_{20}H_{24}N_3J$ 1) 2-Jodpropylat d. 5-Methylphenylamido-3-Methyl-1-Phenylpyrazol. Sm. 134° (*B.* 36, 3277 *C.* 1903 [2] 1189).
- $C_{20}H_{25}ON_3$ 3) α -Nitroso- α -[2,4,6-Trimethylbenzyl]- β -[2,4,6-Trimethylbenzyliden]hydrazin. Sm. 117° (*C.* 1903 [1] 142).
- $C_{20}H_{25}O_2N$ 5) 4-Keto-1-[4-Oxy-2-Methyl-5-Isopropylphenyl]imido-2-Methyl-5-Isopropyl-1,4-Dihydrobenzol (Thymochinonthymolimid) (*B.* 7, 1100; *B.* 36, 2892 *C.* 1903 [2] 876).
 6) Phenylamidoformiat d. α -Oxy- α -[2,4,6-Trimethylphenyl]- β -Methylpropan. Sm. 169° (*B.* 37, 928 *C.* 1904 [1] 1209).
- $C_{20}H_{25}O_3N$ *2) r-Laudanin (*Soc.* 83, 626 *C.* 1903 [1] 591).
 *6) i-Tetrahydropapaverin (*Soc.* 83, 616 *C.* 1903 [1] 591).
 9) Isotetrahydropapaverin. HJ (*B.* 37, 3323 *C.* 1904 [2] 1155).
 10) Isolaudanin. Sm. 76° (*C.* 1903 [1] 845).
- $C_{20}H_{26}O_3N_2$ 8) Oxydihydrochinin. HCl (D.R.P. 152174 *C.* 1904 [2] 166).
- $C_{20}H_{26}O_4N_2$ 2) Yohimboasäure (Noryohimbin). Sm. 257–260° u. Zers. Ag (*B.* 36, 170 *C.* 1903 [1] 471; *B.* 37, 1762 *C.* 1904 [1] 1527).
- $C_{20}H_{26}O_4N_4$ *1) Di[Methylphenylhydrazon] d. d-Glykose. Sm. 153° (*B.* 37, 3362 *C.* 1904 [2] 1210).
 11) 2,2'-Dinitro-4,4'-Di[Diäthylamido]biphenyl. Sm. 114° (132°) (*C.* 1901 [2] 1375; *B.* 37, 34 *C.* 1904 [1] 524).
- $C_{20}H_{26}O_7N_4$ 2) Dimethylester d. Phenylhydrazonglyoximeroxiddihydrotetramethylimalonsäure. Sm. 177° (*Soc.* 83, 1261 *C.* 1903 [2] 1423).
- $C_{20}H_{27}O_2N$ *2) Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin. HJ (*B.* 36, 2892 *C.* 1903 [2] 875).
- $C_{20}H_{27}O_2N_8$ C 70,4 — H 7,9 — O 9,4 — N 12,3 — M. G. 341.
 1) Mentylester d. α -Cyan- α -[4-Methylphenyl]azoessigsäure. Sm. 93 bis 95° (*C.* 1903 [1] 566; *Soc.* 85, 44 *C.* 1904 [1] 789).
- $C_{20}H_{27}O_3N$ 1) Monophenylamidoformiat d. 9-Methyl-3-Isopropenylbicyclo-[1,3,3]-Nonan-5,7-diol. Sm. 55–65° (*B.* 36, 232 *C.* 1903 [1] 514).
 3) Monophenylamidoformiat d. isom. 9-Methyl-3-Isopropenylbicyclo-[1,3,3]-Nonan-5,7-diol. Zers. bei 80° (*B.* 36, 233 *C.* 1903 [1] 514).
 C 63,7 — H 7,1 — O 25,5 — N 3,7 — M. G. 377.
- $C_{20}H_{27}O_6N$ 1) Aethylester d. Anhydrocotarninäthylacetessigsäure. Fl. HCl, (2HCl, PtCl₄) (*B.* 37, 2748 *C.* 1904 [2] 545).
- $C_{20}H_{28}O_8N_2$ 2) Anhydrid d. Oximidocampher. Sm. 187° (*Soc.* 83, 530 *C.* 1903 [1] 1136, 1353; *Soc.* 85, 907 *C.* 1904 [2] 597).
 3) Mentylester d. α -Phenylazoacetylessigsäure. Sm. 76–77° (*Soc.* 83, 1120 *C.* 1903 [2] 23, 791).
 4) Verbindung (aus d. Benzoat d. Oximidocampher). Sm. 154° (*Soc.* 85, 907 *C.* 1904 [2] 597).
- $C_{20}H_{28}O_4N_2$ 2) Peroxyd (aus Oximidocampher). Sm. 96° u. Zers. (*Soc.* 85, 900 *C.* 1904 [2] 597).
 3) Verbindung (aus d. Peroxyd $C_{20}H_{28}O_4N_2$). Sm. 207° u. Zers. (*Soc.* 85, 901 *C.* 1904 [2] 597).
- $C_{20}H_{28}O_5N_2$ 4) Anhydrid d. Camphoryloxim. Sm. 220° (*Soc.* 83, 955 *C.* 1903 [2] 201, 665).
 5) Verbindung (aus d. Verb. $C_{20}H_{28}O_4N_2$). Sm. 172–173° u. Zers. (*Soc.* 85, 900 *C.* 1904 [2] 597).
- $C_{20}H_{29}O_2N$ *1) Mentylester d. β -Phenylamidopropen- α -Carbonsäure. Sm. 89–90° (*Soc.* 81, 1506 *C.* 1903 [1] 138).
- $C_{20}H_{29}O_4N_8$ *1) Mentylester d. β -[4-Nitrophenyl]hydrazidopropen- α -Carbonsäure (*Soc.* 81, 1504 *C.* 1903 [1] 138).
- $C_{20}H_{29}O_5N_3$ C 61,4 — H 7,4 — O 20,5 — N 10,7 — M. G. 391.
 1) Amylester d. α -[α -Benzoylamidoacetylamidopropionyl]amido-propionsäure. Sm. 155° (*J. pr.* [2] 70, 124 *C.* 1904 [2] 1037).
- $C_{20}H_{30}O_2S_2$ 1) Disulfid d. Merkaptocampher. Sm. 224° (*Soc.* 83, 482 *C.* 1903 [1] 923, 1137).

- $C_{20}H_{30}O_4N_4$ C 61,5 — H 7,7 — O 16,4 — N 14,4 — M. G. 390.
1) Verbindung (aus d. Verb. $C_{20}H_{28}O_4N_4$). Zers. bei 262° (*Soe.* 85, 901 *C.* 1904 [2] 597).
- $C_{20}H_{30}O_4S_2$ 1) 1,4-Diacetat d. 2,5-Dimerkapto-1,4-Dioxybenzol-2,5-Diisomyl-äther. Sm. 103—106° (*A.* 336, 157 *C.* 1904 [2] 1300).
- $C_{20}H_{30}O_4N_6$ * 1) Dimyrcennitrosit. Zers. bei 160—161° (*B.* 35, 4429 *C.* 1903 [1] 335; *B.* 36, 1937 *C.* 1903 [2] 201; *B.* 37, 3846 *C.* 1904 [2] 1613).
- $C_{20}H_{31}ON$ 2) 1-Menthylamid d. d- β -Phenylisobuttersäure. Sm. 140° (*Soe.* 85, 449 *C.* 1904 [1] 1445).
- $C_{20}H_{32}O_4N_2$ 3) Verbindung (aus Nitrosodihydrochaulmoograsäure). Sm. 99° (*Am.* 32, 291 *C.* 1904 [2] 1222).
- $C_{20}H_{34}NCl$ 1) Chlorisoamylat d. d-2-Propyl-1-Benzylhexahydropyridin (Ch. d. N-Benzyleoniin). 2 + $PtCl_4$ (*B.* 37, 3635 *C.* 1904 [2] 1510).
2) isom. Chlorisoamylat d. d-2-Propyl-1-Benzylhexahydropyridin. 2 + $PtCl_4$ (*B.* 37, 3635 *C.* 1904 [2] 1510).
- $C_{20}H_{34}NJ$ 1) Jodisoamylat d. d-2-Propyl-1-Benzylhexahydropyridin (J. d. N-Benzyleoniin). Sm. 169° (*B.* 37, 3634 *C.* 1904 [2] 1510).
2) isom. Jodisoamylat d. d-2-Propyl-1-Benzylhexahydropyridin. Sm. 185° (*B.* 37, 3634 *C.* 1904 [2] 1510).
- $C_{20}H_{36}O_2N_2$ 3) Oxamid d. act. α -Dihydrocampholenamin. Sm. 147—148° (*Bl.* [3] 27, 74 *C.* 1902 [1] 585).
4) Oxamid d. r- α -Dihydrocampholenamin. Sm. 150° (*C. r.* 136, 1143 *C.* 1903 [1] 1410).
5) Ureid d. r- α -Dihydrocampholenaminharnstoff. Sm. 112° (*Bl.* [3] 29, 609 *C.* 1903 [2] 374).
- $C_{20}H_{36}O_3Br_2$ 3) Aethylester d. Dibromdihydrochaulmoograsäure. Fl. (*Soe.* 85, 855 *C.* 1904 [2] 348, 604).
- $C_{20}H_{37}O_3Br$ 1) Bromacetoxystearinsäure. Fl. (*J. pr.* [2] 67, 295 *C.* 1903 [1] 1404).
 $C_{20}H_{37}O_3Br$ 2) β -Brom- β -Acetoxystearinsäure. Fl. (*C.* 1903 [1] 319).
 $C_{20}H_{37}O_3N$ C 62,0 — H 9,6 — O 24,8 — N 3,6 — M. G. 387.
1) β -Nitro- β -Acetoxystearinsäure. Fl. (*C.* 1904 [1] 260).
- $C_{20}H_{37}N_2J$ 1) Jodisoamylat d. Spartein. Sm. 229°. HJ (*Ar.* 242, 519 *C.* 1904 [2] 1413).
- 20 IV —
- $C_{20}H_8O_7Cl_4Br_2$ 1) Tetrachlordibromdioxyfluorescein (*B.* 36, 1079 *C.* 1903 [1] 1182).
 $C_{20}H_7O_7NBr_4$ 1) β -Nitrotetrabromfluorescein (D.R.P. 139428 *C.* 1903 [1] 679).
 $C_{20}H_8O_7Cl_4Br_2$ 1) Dichlordibromdioxyfluorescein (*B.* 36, 1081 *C.* 1903 [1] 1182).
 $C_{20}H_{10}O_2N_2Cl_4$ 1) 2,3-Di[3,5-Dichlor-4-Oxyphenyl]-1,4-Benzdiazin. Sm. 256—257° (*A.* 325, 89 *C.* 1903 [1] 465).
 $C_{20}H_{10}O_2N_2Br_4$ 1) 2,3-Di[3,5-Dibrom-4-Oxyphenyl]-1,4-Benzdiazin. Sm. 240° (*A.* 325, 91 *C.* 1903 [1] 465).
 $C_{20}H_{11}O_2NCl_3$ 1) Verbindung (aus Fluoresceinchlorid). Sm. 235° (D.R.P. 48980). — *II, 1209.
- $C_{20}H_{11}O_2N_6Br$ 1) 3-Oxy-2-[3-Brom-2-(2,4,6-Trinitrophenyl)amidophenyl]-1,4-Benzdiazin. Sm. 287—288° (*B.* 35, 4334 *C.* 1903 [1] 293).
 $C_{20}H_{12}O_2NBr$ 2) Brom- α' -Phenylpyrophtalon. Sm. 131° (*B.* 36, 3921 *C.* 1904 [1] 98).
- $C_{20}H_{12}O_3NCl$ 1) Benzoat d. Verb. $C_{13}H_5O_2NCl$. Sm. 231° (*Bl.* [3] 31, 532 *C.* 1904 [1] 1598).
- $C_{20}H_{12}O_4N_4Cl_2$ 1) 1,4-Di[4-Chlor-2-Nitrobenzylidenamido]benzol. Sm. 230° (*B.* 37, 1871 *C.* 1904 [1] 1601).
- $C_{20}H_{13}ON_2Br$ 1) 2[oder 7]-Brom-9-Phenylhydrazon-10-Keto-9,10-Dihydrophenanthren. Sm. 171—172° (*B.* 37, 3561 *C.* 1904 [2] 1401).
- $C_{20}H_{13}O_2NCl_2$ 1) 3-Chlor-4-Benzoylchloramidodiphenylketon. Sm. 123° (*Soe.* 85, 343 *C.* 1904 [1] 1405).
- $C_{20}H_{13}O_2NBr_4$ 1) α' -Phenylpyrophtalontetrabromid. Sm. 237° (*B.* 36, 3920 *C.* 1904 [1] 98).
- $C_{20}H_{14}ON_2S$ 2) 2-[2-Naphtyl]imido-4-Keto-5-Benzylidentetrahydrothiazol. Sm. 272° u. Zers. (*C.* 1903 [2] 110).
- $C_{20}H_{14}O_2NCl$ 1) Benzyläther d. Verb. $C_{13}H_5O_2NCl$. Sm. 142° (*Bl.* [3] 31, 532 *C.* 1904 [1] 1598).
2) 3-Chlor-4-Benzoylamidodiphenylketon. Sm. 126° (*Soe.* 85, 342 *C.* 1904 [1] 1405).

- $C_{20}H_{14}O_2NCl$ 3) 2-Benzoylchloramidodiphenylketon. Sm. 98° (C. 1903 [1] 1137).
 4) 4-Benzoylchloramidodiphenylketon. Sm. 107° (C. 1903 [1] 1138).
 $C_{20}H_{14}O_2NBr$ 2) 4-Benzoylbromamidodiphenylketon. Sm. 93° (C. 1903 [1] 1138).
 3) Phenyl-4-Brombenzoylamid d. Benzolcarbonsäure. Sm. 150° (Ann. 30, 33 C. 1903 [2] 363).
 $C_{20}H_{14}O_2N_2S$ 1) α -Rhodan-4-Nitrotriphenylmethan. Sm. 114—115° (B. 37, 607 C. 1904 [1] 887).
 2) 2-Nitrobenzyläther d. 5-Merkaptoakridin. Sm. 129—130°. (2 HCl, $PtCl_4$), Pikrat (J. pr. [2] 68, 78 C. 1903 [2] 445).
 3) 4-Nitrobenzyläther d. 5-Merkaptoakridin. Sm. 152°. (2 HCl, $PtCl_4$), Pikrat (J. pr. [2] 68, 80 C. 1903 [2] 445).
 $C_{20}H_{14}O_4N_2S$ 10) Phenylsulfondianthranil. Sm. 211—212° (B. 36, 4185 C. 1904 [1] 279).
 $C_{20}H_{14}O_7N_2S_2$ 5) 4-Oxy-1,1'-Azonaphtalin-3,2'-Disulfonsäure (Soc. 83, 212 C. 1903 [1] 638).
 $C_{20}H_{15}ONS$ 1) Benzolphenylamid d. Benzolthiocarbonsäure. Sm. 108—109° (C. 1904 [1] 1003).
 $C_{20}H_{15}O_2NBr_2$ 1) N-Benzoylderivat d. Phenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 167—168° (163°) (A. 332, 200 C. 1904 [2] 211; B. 37, 3940 C. 1904 [2] 1597).
 $C_{20}H_{15}O_2NS$ 6) 9-Phenylsulfonamidphenanthren. Sm. 194—195° (B. 36, 2515 C. 1903 [2] 507).
 $C_{20}H_{15}O_6N_2S_2$ *1) Oxyimid d. Naphtalin-1-Sulfonsäure. Sm. 102° (G. 33 [2] 309 C. 1904 [1] 288).
 $C_{20}H_{16}ON_3Cl$ 1) α -Phenylamidoformylimido- α -[4-Chlorphenyl]amido- α -Phenylmethan. Sm. 201° (J. pr. [2] 67, 461 C. 1903 [1] 1422).
 $C_{20}H_{16}O_2N_2S$ 2) 4'-[3-Nitrobenzyliden]amido-4-Methyldiphenylsulfid. Sm. 115° (J. pr. [2] 68, 272 C. 1903 [2] 993).
 3) 4-[4-Nitrobenzyliden]amido-4-Methyldiphenylsulfid. Sm. 109° (J. pr. [2] 68, 273 C. 1903 [2] 993).
 $C_{20}H_{18}O_5N_4S$ 1) 3,4-Methylenäther d. α -Phenylhydrazon- α -[4-Sulfofenyl]azo- α -[3,4-Dioxyphenyl]methan. K (C. 1903 [2] 427).
 2) 3-[4-Sulfofenyl]hydrazonmethylozobenzol - 3'-Carbonsäure. K_2 (B. 36, 3474 C. 1903 [2] 1270).
 $C_{20}H_{16}O_6N_4S_2$ 1) Disazoverbindung (aus 4,4'-Diamido-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure u. 1,3-Dioxybenzol). Ba (J. pr. [2] 66, 567 C. 1903 [1] 519).
 $C_{20}H_{18}NCl_2S$ 1) 4'-[4-Chlorbenzyliden]amido-4-Methyldiphenylsulfid. Sm. 138° (J. pr. [2] 68, 273 C. 1903 [2] 993).
 $C_{20}H_{16}N_3ClS$ 1) α -Phenylamidothioformylimido- α -[4-Chlorphenyl]amido- α -Phenylmethan. Sm. 148—151° (J. pr. [2] 67, 462 C. 1903 [1] 1422).
 $C_{20}H_{17}ONS$ 1) 4'-[2-Oxybenzyliden]amido-4-Methyldiphenylsulfid. Sm. 114° (J. pr. [2] 68, 272 C. 1903 [2] 993).
 2) 4'-[4-Oxybenzyliden]amido-4-Methyldiphenylsulfid. Sm. 185,5° (J. pr. [2] 68, 272 C. 1903 [2] 993).
 3) 4'-Benzoylamido-4-Methyldiphenylsulfid. Sm. 192° (J. pr. [2] 68, 267 C. 1903 [2] 993).
 $C_{20}H_{17}ON_2Br$ 2) 8-Brom-5-[2-Oxy-1-Naphtyl]azo-1,2,3,4-Tetrahydronaphtalin. Sm. 215° (Soc. 85, 749 C. 1904 [2] 448).
 $C_{20}H_{17}O_3N_8S$ 1) Farbstoff (aus Gallocyanin u. 2,2'-Diamidodiphenyldisulfid) (C. 1904 [2] 1175).
 $C_{20}H_{17}O_3NS$ 3) 2-[4-Methylphenylsulfon]amidodiphenylketon. Sm. 127° (B. 35, 4275 C. 1903 [1] 332).
 4) 4-[4-Methylphenylsulfon]amidodiphenylketon. Sm. 184° (Soc. 85, 398 C. 1904 [1] 1404).
 $C_{20}H_{19}ON_3Cl_2$ 1) Verbindung (aus s-Dichlordimethyläther u. Chinolin). $+ PtCl_4 + 2AuCl_3$ (A. 334, 66 C. 1904 [2] 949).
 $C_{20}H_{18}ON_2S$ 3) 4-Methylphenyläther d. α -Phenyl- β -[4-Merkaptofenyl]harnstoff. Sm. 190° (J. pr. [2] 68, 270 C. 1903 [2] 993).
 $C_{20}H_{19}ON_3S$ 2) α -[β -Phenylthioureido]- α - β -Diphenylharnstoff. Sm. 170° (B. 36, 1368 C. 1903 [1] 1342).
 $C_{20}H_{18}O_3N_2Br_2$ 1) β -Dibrom- β -Di[Phenylamido]-1,2-Benzochinonmonoäthylhemiacetat. Sm. 143° u. Zers. (B. 35, 3853 C. 1903 [1] 26).
 $C_{20}H_{18}O_4N_4S_2$ 1) Cystinphenylhydantoin. Sm. 117° (H. 39, 354 C. 1903 [2] 792).

- $C_{20}H_{18}O_8N_2S$ 1) Antranilopapaverinsulfonsäure. Sm. 233° (B. 37, 1937 C. 1904 [2] 129).
- $C_{20}H_{18}N_2ClJ$ 1) Phenyl-2,3'-Dimethylazobenzol-4'-Jodoniumchlorid. Zers. bei 146°. 2 + $PtCl_4$ (J. pr. [2] 69, 324 C. 1904 [2] 35).
- $C_{20}H_{18}N_2BrJ$ 1) Phenyl-2,3'-Dimethylazobenzol-4'-Jodoniumbromid. Sm. 146° u. Zers. (J. pr. [2] 69, 325 C. 1904 [2] 35).
- $C_{20}H_{19}ON_2J$ 1) Phenyl-2,3'-Dimethylazobenzol-4'-Jodoniumhydroxyd. Salze siehe (J. pr. [2] 69, 324 C. 1904 [2] 35).
- $C_{20}H_{19}ON_7S_2$ 1) Phenylsemicarbazid d. 6-Phenylsemicarbazidopyridin-3-Carbonsäure. Sm. 170—171°. Pikrat (B. 36, 1113 C. 1903 [1] 1184).
- $C_{20}H_{19}O_9NS$ 1) Methylamid d. α -Oxytriphenylmethan-2-Sulfonsäure. Sm. 194 bis 195° (B. 37, 3267 C. 1904 [2] 1031).
- $C_{20}H_{19}O_4N_3S$ 1) Äthylester d. 2-Phenylimido-5-Benzoxyl-2,3-Dihydro-1,3,4-Thiodiazol-3-[Äthyl- α -Carbonsäure]. Sm. 110° (C. 1904 [2] 1028).
2) Phenylamid d. 5-Phenylsulfon-4-Oxy-3-Methylphenylazomeisensäure. Sm. 153—154° u. Zers. (A. 334, 193 C. 1904 [2] 835).
- $C_{20}H_{20}O_3NP$ 2) 2,4-Dimethylphenylmonamid d. Phosphorsäurediphenylester. Sm. 115° (A. 326, 240 C. 1903 [1] 868).
- $C_{20}H_{20}O_4NBr$ * 1) Tetramethyläther d. 6,7-Dioxy-1-(6-Brom-3,4-Dioxybenzyl)-isochinolin (Brompapaverin). HCl, Pikrat (B. 37, 3812 C. 1904 [2] 1575).
- $C_{20}H_{21}O_2N_2Cl$ 1) Cinchonidinkohlensäurechlorid. Sm. 191° (D.R.P. 93698). — * III, 641.
- $C_{20}H_{21}O_2N_2P$ 1) Di[Benzylamid] d. Phosphorsäuremonophenylester. Sm. 114° (A. 326, 176 C. 1903 [1] 819).
2) Di[2-Methylphenylamid] d. Phosphorsäuremonophenylester. Sm. 157,5° (A. 326, 251 C. 1903 [1] 868).
- $C_{20}H_{22}O_4NCl$ 1) Chlormethylat d. Papaverolintrimethyläther. Sm. 70—71° (C. 1903 [1] 845).
- $C_{20}H_{22}O_4NJ$ 2) Jodmethylat d. Papaverolintrimethyläther + xH_2O . Sm. 63—64° (C. 1903 [1] 845).
- $C_{20}H_{22}O_5N_4Cl_2$ 1) Methyl ester d. δ -Oximido- ϵ -[4-Chlorphenyl]hydroxylhydrazon- γ -[4-Chlorphenyl]amido- γ -Oxy- β -Methylpentan- β -Carbonsäure. Sm. 117—120° (Soc. 83, 1246 C. 1903 [2] 1421).
- $C_{20}H_{22}O_6N_4S_2$ 1) Di[β -Phenylureidoäthyl]disulfid- $\beta\beta$ -Dicarbonsäure (Cystinphenylhydantoinsäure) (H. 39, 354 C. 1903 [2] 792).
- $C_{20}H_{22}N_3SP$ 1) Äthylphenylmonamid-Di[Phenylamid] d. Thiophosphorsäure. Sm. 140° (A. 326, 258 C. 1903 [1] 869).
- $C_{20}H_{23}O_2N_2Br$ 1) Bromchinin. Sm. 210°. $2HCl + H_2O$, $2HBr + 3H_2O$, $H_2SO_4 + 7H_2O$, $(4 + 3H_2SO_4, 2HJ, J_4)$ (J. pr. [2] 69, 211 C. 1904 [1] 1448).
- $C_{20}H_{23}O_2N_0J$ 1) Verbindung (aus 5-Oxy-4-Methyl-1-Phenyl-1,2,3-Triazol). Sm. 168° (A. 335, 95 C. 1904 [2] 1232).
- $C_{20}H_{24}ON_4S$ 1) α -Caproylimido- α -Phenylbenzylamido- α -Merkaptomethan. Sm. 77—78° (Soc. 85, 811 C. 1904 [2] 202, 520).
- $C_{20}H_{24}O_2NJ$ * 1) Jodbenzylat d. 1,2,3,4-Tetrahydro-2-Isochinolylessigsäureäthylester. Zers. bei 154—155° (B. 36, 1158 C. 1903 [1] 1186).
2) Jodmethylat d. Dimethylapomorphin. Sm. 195° (B. 35, 4389 C. 1903 [1] 339).
- $C_{20}H_{24}O_2N_2Br_2$ * 1) Chinindibromid (J. pr. [2] 69, 209 C. 1904 [1] 1448).
- $C_{20}H_{24}O_2N_2Se_2$ 1) Di[2,4-Dimethylphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbonsäure. Sm. 184° (Ar. 241, 207 C. 1903 [2] 104).
2) Di[2,5-Dimethylphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbonsäure. Sm. 180—181° (Ar. 241, 208 C. 1903 [2] 104).
- $C_{20}H_{24}O_2BrJ$ 1) Verbindung (aus Thymol) (M. 24, 77 C. 1903 [1] 767).
- $C_{20}H_{24}O_4NBr$ 1) Methylhydroxyd d. Acetyl brommorphin. Jodid + $2H_2O$ (A. 297, 217). — * III, 669.
- $C_{20}H_{25}O_3NBr_2$ 1) 4-Acetat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethanmethylhydroxyd. Zers. bei 120°. Chlorid (A. 334, 296 C. 1904 [2] 985).
- $C_{20}H_{25}O_3N_2J$ 1) Jodmethylat d. 4, 5, 6 - Trioxy - 2 - [β - Dimethylamidoäthyl] - 1 - Phenylimidomethylbenzol - 6 - Methyläther - 4, 5 - Methylenäther (Anil d. Cotaninmethinmethyljodid). Sm. 199° (B. 36, 1528 C. 1903 [2] 52).

- $C_{20}H_{26}O_3N_2Br_2$ 1) Mentylester d. α -Brom- α -[4-Bromphenyl]azoacetessigsäure. Sm. 155° (Soc. 83, 1128 C. 1903 [2] 24, 792).
- $C_{20}H_{27}O_3N_2Cl$ 1) Mentylester d. α -[4-Chlorphenyl]azoacetylessigsäure. Sm. 103—105° (Soc. 83, 1123 C. 1903 [2] 24, 791).
- $C_{20}H_{27}O_3N_2Br$ 1) Mentylester d. α -Brom- α -Phenylazoacetessigsäure. Sm. 133 bis 134° (Soc. 83, 1126 C. 1903 [2] 24, 791).
- 2) Mentylester d. α -[4-Bromphenyl]azoacetylessigsäure. Sm. 119—121° (Soc. 83, 1122 C. 1903 [2] 23, 791).
- $C_{20}H_{25}O_3NP$ 1) Diphenyläther d. Diisobutylamidodioxyposphin. Fl. (A. 326, 156 C. 1903 [1] 761).
- $C_{20}H_{28}O_3NP$ 1) Diisobutylmonamid d. Phosphorsäurediphenylester. Sm. 56° (A. 326, 186 C. 1903 [1] 820).
- $C_{20}H_{30}ON_3P$ 1) Dipropylmonamid-Di[4-Methylphenylamid] d. Phosphorsäure. Sm. 168° (A. 326, 185 C. 1903 [1] 820).
- 2) Diisobutylmonamid-Di[Phenylamid] d. Phosphorsäure. Sm. 202° (A. 326, 186 C. 1903 [1] 820).
- $C_{20}H_{32}ON_3P$ 1) Diisobutylmonamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 168° (A. 326, 186 C. 1903 [1] 820).
- $C_{20}H_{26}O_3N_2Cl_2$ * 1) Menthenbinistrosochlorid (C. 1904 [1] 1347).
- $C_{20}H_{26}N_3SP$ 1) Diäthylmonamid - Di[Diisobutylamid] d. Thiophosphorsäure. Fl. (A. 326, 218 C. 1903 [1] 822).

— 20 V —

- $C_{20}H_{14}ONBrS$ 1) Phenyl-4-Brombenzoylamid d. Benzolthiocarbonsäure. Sm. 120 bis 121° (C. 1904 [1] 1003).
- 2) Benzoylphenylamid d. 4-Brombenzothiocarbonsäure. Sm. 133 bis 134° (C. 1904 [1] 1003).
- $C_{20}H_{16}O_3NClS$ 1) 4-[4-Methylphenylsulfon]chloramidodiphenylketon. Sm. 116° (Soc. 85, 398 C. 1904 [1] 1404).
- $C_{20}H_{18}O_3NCl_2P$ 1) 2,4-Dichlorphenylmonamid d. Phosphorsäuredi[4-Methylphenylester]. Sm. 162° (A. 326, 229 C. 1903 [1] 867).
- $C_{20}H_{18}O_3NBr_2P$ 1) 2,4-Dibromphenylmonamid d. Phosphorsäuredi[4-Methylphenylester]. Sm. 158° (A. 326, 236 C. 1903 [1] 867).
- $C_{20}H_{19}O_3NBrP$ 1) 4-Bromphenylmonamid d. Phosphorsäuredi[4-Methylphenylester]. Sm. 138° (A. 326, 233 C. 1903 [1] 867).
- $C_{20}H_{20}ON_3Br_2P$ 1) 2,4-Dibromphenylmonamid-Di[4-Methylphenylamid] d. Phosphorsäure. Sm. 214° (A. 326, 236 C. 1903 [1] 867).
- $C_{20}H_{21}ON_2SP$ 1) Di[Phenylamid] d. Thiophosphorsäuremonophenylester. Sm. 73° (C. 1904 [2] 985).
- $C_{20}H_{24}O_2NClBr_2$ 1) Acetat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethanachlormethylat. Sm. 205—207° (A. 334, 296 C. 1904 [2] 985).
- $C_{20}H_{24}O_2NBr_2J$ 1) Acetat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethanjodmethylat. Sm. 169—171° (A. 334, 289 C. 1904 [2] 984).
- 2) Acetat d. 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethanjodmethylat. Sm. 184—185° u. Zers. (A. 334, 321 C. 1904 [2] 987).
- $C_{20}H_{26}O_3N_2ClBr$ 1) Mentylester d. α -Brom- α -[4-Chlorphenyl]azoacetessigsäure. Sm. 147—148° (Soc. 83, 1129 C. 1903 [2] 24, 792).

C₂₁-Gruppe.

- $C_{21}H_{18}$ 3) 4-[4-Methylbenzyl]fluoren. Sm. 72° (M. 25, 984 C. 1904 [2] 1653).
- $C_{21}H_{40}$ C 86,3 — H 13,7 — M. G. 292.
- 1) Kohlenwasserstoff (aus Petroleum) (C. 1904 [1] 409).

— 21 II —

- $C_{21}H_{12}O_2$ * 2) α -Dinaphtoxanthon (C. r. 136, 1008 C. 1903 [1] 1267; C. 1904 [2] 122).
- * 3) β -Dinaphtylenketonoxyd. Sm. 149° (C. r. 138, 1053 C. 1904 [1] 1612).

- $C_{21}H_{12}O_2$ 5) Dinaphtopyron. Sm. 194° (*C. r.* 138, 1053 *C.* 1904 [1] 1613).
 $C_{21}H_{12}O_3$ 3) α -Cumarylketon- β -Naphthofuran. Sm. 200° (*B.* 36, 2867 *C.* 1903 [2] 832).
 $C_{21}H_{13}N$ *1) 1,2,1',2'-Dinaphtakridin. Sm. 216°. HNO_3 (*B.* 35, 4171 *C.* 1903 [1] 172; *B.* 36, 1028 *C.* 1903 [1] 1269; *B.* 36, 4052 *C.* 1904 [1] 185).
 *4) 1,2,2',3'-[γ]-Naphhtakridin (*B.* 36, 4052 *C.* 1904 [1] 185).
 5) 1,2,2',1'-Dinaphtakridin. Sm. 228°. HCl , HNO_3 (*B.* 36, 1029 *C.* 1903 [1] 1269).
 $C_{21}H_{14}O$ *8) Dinaphtoxanthen (*C. r.* 139, 600 *C.* 1904 [2] 1504).
 $C_{21}H_{14}O_2$ *4) Dinaphtoxanthidol (*C.* 1904 [2] 122).
 8) 9-Keto-4-[4-Methylbenzoyl]fluoren. Sm. 128° (*M.* 25, 982 *C.* 1904 [2] 1653).
 $C_{21}H_{14}O_3$ 5) Methyläther d. 9-Keto-4-[4-Oxybenzoyl]fluoren. Sm. 95° (*M.* 25, 986 *C.* 1904 [2] 1653).
 6) 2-Benzoylfuoren-2³-Carbonsäure. Sm. 227–230°. Ag (*B.* 36, 4035 *C.* 1904 [1] 168).
 7) 2-Naphtylester d. 1-Oxynaphtalin-2-Carbonsäure. Sm. 138° (*D.R.P.* 43 713). — *II, 988.
 $C_{21}H_{14}O_5$ 2) Aldehyd d. 3,4-Dibenzoylbenzol-1-Carbonsäure. Sm. 98° (*B.* 36, 2930 *C.* 1903 [2] 887).
 $C_{21}H_{14}O_6$ *C.* 69,6 — H 3,8 — O 26,5 — *M. G.* 362.
 1) 2',3'-Lakton d. 1-Keto-3-Aethoxyl-2-[2-Oxy-1,3-Diketo-2,3-Dihydro-2-Indenyl]-2,3-Dihydroinden-3-Carbonsäure. Sm. 138° (*B.* 35, 3962 *C.* 1903 [1] 33).
 $C_{21}H_{14}N_4$ *C.* 78,3 — H 4,3 — N 17,4 — *M. G.* 322.
 1) Verbindung (aus d. Verb. $C_{21}H_{16}ON_4$). Sm. 231° (*B.* 36, 1136 *C.* 1903 [1] 1254).
 $C_{21}H_{16}N_3$ *1) 2,4,6-Triphenyl-1,3,5-Triazin (*Soc.* 85, 262 *C.* 1904 [1] 1005).
 5) *p*-Tolylindophenazin. Sm. 255–255,5° (*B.* 35, 4335 *C.* 1903 [1] 293).
 $C_{21}H_{16}O$ 12) 1,8-Dimethyl-4,5-Diisopropylxanthen. Sm. 164,5° (*C. r.* 136, 1567 *C.* 1903 [2] 383).
 $C_{21}H_{16}O_3$ 14) Lakton d. 3,3'-Dioxytriphenylessigmonomethyläthersäure. Sm. 181° (*B.* 37, 4037 *C.* 1904 [2] 1600).
 15) Methyl ester d. 3-Benzoylacenaphten-3³-Carbonsäure. Sm. 128° (*A.* 327, 100 *C.* 1903 [1] 1228).
 $C_{21}H_{16}O_4$ 15) Triphenylessigsäure-4-Carbonsäure. Zers. bei 246–247°. Ag_2 (*B.* 37, 662 *C.* 1904 [1] 952).
 16) Dibenzozat d. 2,6-Dioxy-1-Methylbenzol. Sm. 101–103° (*M.* 24, 908 *C.* 1904 [1] 513).
 $C_{21}H_{16}O_5$ 7) 2-Keto-1,3-Dipiperonal-R-Pentamethylen. Sm. 250° (*B.* 36, 1504 *C.* 1903 [1] 1352).
 $C_{21}H_{16}O_8$ *9) Triacetat d. Emodin. Sm. 193° (*B.* 35, 609 *C.* 1903 [1] 176).
 *10) Triacetat d. 3,5,7-Trioxy-2-Phenyl-1,4-Benzpyron (Tr. d. Galangin). Sm. 140–142° (*B.* 37, 2806 *C.* 1904 [2] 713).
 20) Triacetat d. 5,6-Dioxy-2-Keto-1-[2-Oxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 160° (*B.* 29, 2433). — *III, 533.
 21) Triacetat d. 5,6-Dioxy-2-Keto-1-[3-Oxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 166–167° (*B.* 29, 2433). — *III, 533.
 22) Triacetat d. 5,6-Dioxy-2-Keto-1-[4-Oxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 199–201° (*B.* 29, 2434). — *III, 533.
 23) Triacetat d. Aloëmodin. Sm. 170° (*Ar.* 238, 434). — *III, 325.
 24) Triacetat d. 3,6-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 169° (*B.* 37, 784 *C.* 1904 [1] 1159).
 25) Triacetat d. 3,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 169° (*B.* 37, 4161 *C.* 1904 [2] 1659).
 26) Triacetat d. 3,7-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 153° (*B.* 37, 4163 *C.* 1904 [2] 1659).
 27) Triacetat d. 3,7,8-Trioxy-2-Phenyl-1,4-Benzpyron. Sm. 210° (*B.* 37, 2809 *C.* 1904 [2] 713).
 $C_{21}H_{16}N_2$ *3) 1,3,5-Triphenylpyrazol. Sm. 139,5° (*C. r.* 136, 1264 *C.* 1903 [2] 123).
 *5) 2,4,5-Triphenylimidazol. Sm. 272° (*B.* 35, 4140 *C.* 1903 [1] 295).
 15) γ -Phenylhydrazon- $\alpha\gamma$ -Diphenylpropin. Sm. 150° (*Soc.* 85, 1326 *C.* 1904 [2] 1645).

- $C_{21}H_{16}N_4$ 4) 5-Benzylidenamido-1,4-Diphenyl-1,2,3-Triazol. Sm. 175° (*B.* 35, 4059 *C.* 1903 [1] 171).
- $C_{21}H_{17}N$ *10) 3,7-Dimethyl-5-Phenylakridin. Sm. 172°. Bichromat (*B.* 36, 1020 *C.* 1903 [1] 1268).
- 11) 10-Methyl-5-Benzyliden-5,10-Dihydroakridin. Sm. 141° (*B.* 37, 1566 *C.* 1904 [1] 1447; *B.* 37, 3398 *C.* 1904 [2] 1317).
- $C_{21}H_{17}N_3$ 10) 3,5-Diphenyl-1-[2-Methylphenyl]-1,2,4-Triazol? (*J. pr.* [2] 67, 484 *C.* 1903 [2] 250).
- 11) 3,5-Diphenyl-1-[4-Methylphenyl]-1,2,4-Triazol. Sm. 108—109° (*J. pr.* [2] 67, 487 *C.* 1903 [2] 250).
- $C_{21}H_{17}Cl$ 2) α -Chlor- $\alpha\gamma\gamma$ -Triphenylpropen. Sm. 91° (*Am.* 29, 358 *C.* 1903 [1] 1180; *Am.* 31, 644 *C.* 1904 [2] 445).
- $C_{21}H_{18}O$ *2) ϵ -Keto- α -Diphenyl- $\alpha\gamma\zeta\theta$ -Nonatetraën. + 1(2)HCl, + 2FeCl₃ (*C.* 1903 [2] 284; *B.* 37, 3671 *C.* 1904 [2] 1569).
- 6) γ -Keto- $\alpha\alpha\gamma$ -Triphenylpropan. Sm. 96° (*Am.* 29, 354 *C.* 1903 [1] 1180; *Am.* 31, 649 *C.* 1904 [2] 446).
- $C_{21}H_{18}O_2$ *9) Acetat d. α -Oxytriphenylmethan. Sm. 87—88° (*B.* 36, 3926 *C.* 1904 [1] 96).
- 15) γ -Oxy- $\gamma\gamma$ -Diphenyl- α -[2-Oxyphenyl]propen. Sm. 164—166° (*B.* 37, 496 *C.* 1904 [1] 805).
- 16) α -Oxy- γ -Keto- $\alpha\alpha\gamma$ -Triphenylpropan. Sm. 126—127° (*B.* 37, 2640 *C.* 1904 [2] 529).
- 17) Äthyläther d. 9-Oxy-9-Phenylxanthen. Sm. 102—103° (*B.* 37, 2934 *C.* 1904 [2] 1142).
- 18) Methyl ester d. Triphenylmethan-2-Carbonsäure. Sm. 98° (*C. r.* 139, 12 *C.* 1904 [2] 530).
- $C_{21}H_{18}O_3$ *14) 4-Acetat d. $\alpha,4$ -Dioxytriphenylmethan. Sm. 139° (*B.* 36, 3252 *C.* 1903 [2] 884).
- $C_{21}H_{18}O_5$ *4) norm. Propylester d. Pulvinsäure (*C.* 1903 [2] 121).
- 5) Diacetat d. stab. γ -Keto- $\alpha\epsilon$ -Di[4-Oxyphenyl]- $\alpha\delta$ -Pentadiën. Sm. 165—166° (*B.* 36, 131 *C.* 1903 [1] 457).
- $C_{21}H_{18}O_6$ *5) Triacetat d. Chrysarobin. Sm. 238° (*Soc.* 81, 1579 *C.* 1903 [1] 34, 167).
- *6) β -Trimethyläther d. Dehydrobrasilinmonacetat. Sm. 183—185° (*B.* 37, 631 *C.* 1904 [1] 955; *M.* 25, 881 *C.* 1904 [2] 1312).
- $C_{21}H_{18}O_8$ 3) Triacetat d. 3,6-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 126 bis 127° (*B.* 37, 960 *C.* 1904 [1] 1160).
- 4) Triacetat d. Butin. Sm. 123—125° (*C.* 1903 [1] 1415; 1904 [2] 451).
- $C_{21}H_{18}N_2$ 17) Di[2-Naphtylamido]methan. Sm. 104° (*B.* 35, 4169 *C.* 1903 [1] 172).
- 18) 3-[4-Dimethylamidophenyl]- β -Naphtochinolin. Sm. 245° (*B.* 37, 1743 *C.* 1904 [1] 1599).
- 19) 3,7-Dimethyl-5-[3-Amidophenyl]akridin. Sm. 273° (*B.* 36, 1024 *C.* 1903 [1] 1268).
- 20) 3,7-Dimethyl-5-[4-Amidophenyl]akridin. Sm. 268° (*B.* 36, 1023 *C.* 1903 [1] 1268).
- $C_{21}H_{18}N_4$ 10) 3-[Methylphenylamido]-1,5-Diphenyl-1,2,4-Triazol. Sm. 202—203° u. Zers. (*Am.* 29, 81 *C.* 1903 [1] 523).
- 11) 3-[4-Methylphenyl]amido-1,5-Diphenyl-1,2,4-Triazol. Sm. 227 bis 228° (*Am.* 29, 81 *C.* 1903 [1] 523; *Am.* 32, 367 *C.* 1904 [2] 1507).
- $C_{21}H_{19}N$ C 88,4 — H 6,7 — N 4,9 — M. G. 285.
- 1) 3,7-Dimethyl-5-Phenyl-5,10-Dihydroakridin (*B.* 36, 1020 *C.* 1903 [1] 1268).
- $C_{21}H_{19}N_3$ 4) 4'-[4-Methylphenylimido]methyl-4-Methylazobenzol. Sm. 170—171° (*B.* 36, 2311 *C.* 1903 [2] 429).
- 5) 2,6-Di[β -4-Amidophenyläthenyl]pyridin. Sm. 146° (HCl, HgCl₂, (2HCl, PtCl₄) (*B.* 36, 1689 *C.* 1903 [2] 47).
- $C_{21}H_{19}Cl$ 1) α -Chlor-4,4'-Dimethyltriphenylmethan. Sm. 106—107° (*B.* 37, 1631 *C.* 1904 [1] 1648).
- $C_{21}H_{20}O$ *5) Äthyläther d. 4-Oxytriphenylmethan (*B.* 36, 3571 *C.* 1903 [2] 1375).
- 7) β -Oxy- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 86—87° (*B.* 37, 1456 *C.* 1904 [1] 1353).
- 8) α -Oxy-4,4'-Dimethyltriphenylmethan. Sm. 79—80° (*B.* 37, 1631 *C.* 1904 [1] 1648).

- $C_{21}H_{20}O$ 9) Methylläther d. 4-Oxy-3-Methyltriphenylmethan. Sm. 80—81° (B. 36, 3562 C. 1903 [2] 1374).
- $C_{21}H_{20}O_2$ 5) $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenyl- α -[4-Methylphenyl]äthan. Sm. 168° (B. 37, 2763 C. 1904 [2] 708).
- 6) Dimethyläther d. 3,4-Dioxytriphenylmethan. Sm. 110,5° (B. 37, 3333 C. 1904 [2] 1050).
- $C_{21}H_{20}O_3$ 6) 3,4-Dimethyläther d. α ,3,4-Trioxytriphenylmethan. Sm. 151,5° (B. 37, 3332 C. 1904 [2] 1050).
- 7) 4,4'-Dimethyläther d. α ,4,4'-Trioxytriphenylmethan. Sm. 76—77° (B. 36, 2787 C. 1903 [2] 881).
- $C_{21}H_{20}O_4$ 3) Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Isopropylphenyl]butan- β -Ketocarbonsäure. Sm. 120° (A. 333, 240 C. 1904 [2] 1390).
- 4) isom. Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Isopropylphenyl]-butan- β -Ketocarbonsäure. Sm. 158° (A. 333, 253 C. 1904 [2] 1391).
- $C_{21}H_{20}O_5$ 2) 3,4-Dimethyläther d. α ,3,4,3',4'-Pentaoxytriphenylmethan. Sm. 73—74° (B. 37, 3331 C. 1904 [2] 1050).
- 3) 2-Keto-1,3-Divanillal-R-Pentamethylen. Sm. 210° (B. 36, 1503 C. 1903 [1] 1352).
- 4) Lakton d. ϵ -Keto- γ -Acetoxyl- δ -Oxy- γ - δ -Diphenylhexan- β -Carbonsäure. Sm. 140° (Soc. 83, 299 C. 1903 [1] 878).
- $C_{21}H_{20}O_6$ *1) Curcumin. K (Soc. 83, 140 C. 1903 [1] 89, 466; Soc. 85, 63 C. 1904 [1] 381, 729).
- 9) α -Pentamethyläther d. Pentaoxybrasan. Sm. 167° (B. 36, 2201 C. 1903 [2] 382; B. 36, 3715 C. 1904 [1] 39).
- 10) β -Pentamethyläther d. Pentaoxybrasan. Sm. 174° (175—176°) (B. 36, 2205 C. 1903 [2] 382; B. 36, 3715 C. 1904 [1] 39).
- $C_{21}H_{20}O_7$ 4) γ^6 -Acetat d. γ -Keto- γ -[2,4,6-Trioxyphenyl]- α -[2,4-Dioxyphenyl]-propen- $\alpha^3, \alpha^1, \gamma^2, \gamma^4$ -Tetramethyläther. Sm. 118—119° (B. 37, 794 C. 1904 [1] 1159).
- 5) γ^6 -Acetat d. γ -Keto- γ -[2,4,6-Trioxyphenyl]- α -[3,4-Dioxyphenyl]-propen- $\alpha^3, \alpha^1, \gamma^2, \gamma^4$ -Tetramethyläther. Sm. 107° (B. 37, 794 C. 1904 [1] 1158).
- 6) 3-Acetat d. 3,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron-2 β ,2 α -Dimethyläther-7-Aethyläther. Sm. 162—163° (B. 37, 789 C. 1904 [1] 1157).
- $C_{21}H_{20}O_8$ *4) Barbaloin + $1\frac{1}{2}(4)H_2O$ (Bl. [3] 27, 1225 C. 1903 [1] 401).
- *5) Isoharbaloin + $3(4)H_2O$ (C. 1903 [1] 235).
- *6) Acetat d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinonpentamethyläther. Sm. 179—180° (C. 1904 [2] 709).
- $C_{21}H_{20}N_2$ *2) α -Benzylimido- α -Methylphenylamido- α -Phenylmethan. Sm. 89 bis 90° (Soc. 83, 327 C. 1903 [1] 581, 876; B. 37, 2681 C. 1904 [2] 521).
- 14) α -Phenylimido-4-Dimethylamidodiphenylmethan. Sm. 151° (D.R.P. 41751). — *III, 150.
- 15) α -[β -Phenyläthyliden]- β -Phenyl- β -Benzylhydrazin. Sm. 83° (C. r. 137, 717 C. 1903 [2] 1433).
- 16) α -[2-Methylbenzyliden]- β -Phenyl- β -Benzylhydrazin. Sm. 87° (C. r. 137, 717 C. 1903 [2] 1433).
- 17) α -[4-Methylbenzyliden]- β -Phenyl- β -Benzylhydrazin. Sm. 140° (C. r. 137, 717 C. 1903 [2] 1433).
- *3) Tribenzylamin. Benzolsulfons. Salz (B. 37, 4137 C. 1904 [2] 1713).
- $C_{21}H_{21}N$ 4) Aethyl ester d. γ -Benzoylmethyl- α -Phenyl- α -Buten- δ -Carbonsäure. Sm. 75—76° (C. 1903 [2] 944).
- $C_{21}H_{22}O_5$ 9) Dimethyläther d. Verb. $C_{19}H_{15}O_5$. Sm. 131° (M. 24, 215 C. 1903 [2] 38).
- $C_{21}H_{22}O_7$ 3) Triäthyläther d. Quercetin. Sm. 123—124°. K_2 (Ar. 242, 238 C. 1904 [1] 1652).
- $C_{21}H_{22}O_8$ 3) Acetylbarbatinsäure. Sm. 172° (J. pr. [2] 68, 14 C. 1903 [2] 511).
- $C_{21}H_{22}O_{10}$ 2) Dibenzoylchitoheptonsäure. Sm. 117—120° (B. 35, 4022 C. 1903 [1] 392).
- $C_{21}H_{22}N_2$ 10) 4,4'-Diamido-3,3'-Dimethyltriphenylmethan. Sm. 121—122° (C. 1904 [2] 227).
- 11) 4,4'-Di[Methylamido]triphenylmethan. Sm. 104° (B. 37, 639 C. 1904 [1] 950).

- $C_{21}H_{22}N_2$ 12) Verbindung (aus 2-Methylindol u. Propionaldehyd). Sm. 180° (B. 36, 4326 C. 1904 [1] 462).
- $C_{21}H_{23}N_3$ 7) α -Imido- α -[4-Dimethylamidophenyl]- α -[4-Aethylamido-1-Naphtyl]-methan. Sm. 199—200° HCl (B. 37, 1906 C. 1904 [2] 116).
- $C_{21}H_{24}O_2$ 5) 1,8-Dimethyl-4,5-Diisopropylxanthon. Sm. 121° (C. r. 136, 1567 C. 1903 [2] 383).
- $C_{21}H_{24}O_4$ 9) Diaacetat d. 4,4'-Dioxy-2,5,2',5'-Tetramethyldiphenylmethan. Sm. 154—155° (B. 36, 1891 C. 1903 [2] 291).
- $C_{21}H_{24}O_5$ 2) Dimethyläther d. Anhydrolariciresinol. Sm. 148,5° (M. 23, 1028 C. 1903 [1] 288).
- $C_{21}H_{24}O_6$ 3) Aethylester d. β -Oxy- β -Phenylakryl-3,5-Diäthoxyphenyläthersäure. Sd. 263—264°₁₇ (Soc. 83, 1135 C. 1903 [2] 1060).
- $C_{21}H_{24}O_{11}$ 2) Aldehyd d. Di[2,4,6-Trioxyphenyl]methan-3,3'-Dicarbonsäure. Sm. 154—155° (M. 24, 871 C. 1904 [1] 368).
- $C_{21}H_{24}N_2$ *3) Tetracetylhelicin. Sm. 142° (B. 36, 2578 C. 1903 [2] 621).
- $C_{21}H_{25}N_5$ 1) ϵ -[2,4-Dimethylphenyl]imido- α -[2,4-Dimethylphenyl]amido- $\alpha\gamma$ -Pentadien. Fl. HCl (A. 333, 325 C. 1904 [2] 1149).
- $C_{21}H_{25}N_5$ 1) 4-Amidophenylid[4,6-Diamido-3-Methylphenyl]methan (C. 1903 [1] 884).
- $C_{21}H_{28}O_2$ 3) l-Menthylester d. Naphtalin-1-Carbonsäure. Sd. 231—232°₁₁ (A. 327, 196 C. 1903 [1] 1396).
- $C_{21}H_{28}O_8$ *5) Dimethyläther d. isom. Lariciresinol. Sm. 167° (M. 23, 1025 C. 1903 [1] 288).
- $C_{21}H_{26}O_7$ 2) Olivetersäure (siehe auch $C_{27}H_{36}O_8$). Sm. 141° (J. pr. [2] 68, 48 C. 1903 [2] 512).
- $C_{21}H_{28}N_4$ C 75,4 — H 7,8 — N 16,8 — M. G. 334
- $C_{21}H_{28}O_2$ 1) ϵ -[4-Dimethylamidophenyl]imido- α -[4-Dimethylamidophenyl]-amido- $\alpha\gamma$ -Pentadien. HBr (J. pr. [2] 70, 49 C. 1904 [2] 1236).
- $C_{21}H_{28}O_2$ 5) Dimethyläther d. $\alpha\alpha$ -Di[4-Oxyphenyl]heptan (C. 1904 [1] 1650).
- $C_{21}H_{28}O_2$ 6) l-Menthylester d. 1,2-Dihydronaphtalin-4-Carbonsäure. Sd. 226 bis 227°₁₂ (A. 327, 197 C. 1903 [1] 1396).
- $C_{21}H_{28}O_3$ 7) l-Menthylester d. 1,4-Dihydronaphtalin-1-Carbonsäure. Sm. 89—89,5° (A. 327, 198 C. 1903 [1] 1396).
- $C_{21}H_{28}O_3$ C 76,8 — H 8,5 — O 14,6 — M. G. 328.
- $C_{21}H_{28}O_4$ 1) l-Menthylester d. γ -Keto- α -Phenyl- α -Buten- β -Carbonsäure. Sm. 133—134° (Soc. 85, 54 C. 1904 [1] 360, 788).
- $C_{21}H_{28}O_4$ C 73,3 — H 8,1 — O 18,6 — M. G. 344.
- $C_{21}H_{28}O_8$ 1) l-Menthylester d. β -Acetoxy- α -Phenylakrylsäure. Sm. 51—52° (C. 1902 [2] 208; Soc. 81, 1497 C. 1903 [1] 153). — *III, 335.
- $C_{21}H_{28}O_8$ 2) l-Menthylester d. Benzoylacetylessigsäure. Fl. Cu (C. 1902 [2] 208; Soc. 81, 1507 C. 1903 [1] 139). — *III, 335.
- $C_{21}H_{28}O_8$ C 61,8 — H 6,8 — O 31,4 — M. G. 408.
- $C_{21}H_{28}O_{13}$ 1) Tetraäthylester d. β -Phenylpropan- $\alpha\alpha\gamma\gamma$ -Tetracarbonsäure. Sd. 225 bis 230°₁₄ (J. pr. [2] 68, 162 C. 1903 [2] 759).
- $C_{21}H_{28}O_{13}$ 1) Triacetat d. Saponin (Ar. 241, 616 C. 1904 [1] 170).
- $C_{21}H_{28}S_3$ 1) Triäthyläther d. $\alpha\alpha\gamma$ -Trimerkapto- $\alpha\gamma$ -Diphenylpropan. Fl. (B. 34, 1403). — *III, 169.
- $C_{21}H_{30}O_2$ 2) Cannabinol. Sd. 215°_{0,5} (C. 1903 [2] 199).
- $C_{21}H_{30}O_2$ 3) l-Menthylester d. 1,2,3,4-Tetrahydronaphtalin-1-Carbonsäure. Sd. 207°₁₀ (A. 327, 200 C. 1903 [1] 1396).
- $C_{21}H_{30}O_3$ C 76,4 — H 9,1 — O 14,5 — M. G. 330.
- $C_{21}H_{30}O_8$ 1) Laricopinsäure. Sm. 80° (Ar. 241, 573 C. 1904 [1] 166).
- $C_{21}H_{30}O_8$ C 61,5 — H 7,3 — O 31,2 — M. G. 410.
- $C_{21}H_{30}O_{12}$ 1) Antiarin (siehe auch $C_{27}H_{32}O_{12}$) (C. 1903 [1] 782).
- $C_{21}H_{30}O_{12}$ C 53,2 — H 6,3 — O 40,5 — M. G. 474.
- $C_{21}H_{32}O$ 1) Hexaäthylester d. R-Trimethylenhexacarbonsäure. Sd. 179—202°₁₂ (J. pr. [2] 68, 165 C. 1903 [2] 760).
- $C_{21}H_{32}O$ C 84,0 — H 10,7 — O 5,3 — M. G. 300.
- $C_{21}H_{32}O_4$ 1) Verbindung (aus Borneobresk). Sm. 125° (B. 37, 4114 C. 1904 [2] 1656).
- $C_{21}H_{32}O_4$ 5) Trimethyläther d. γ -Keto- α -[2,4,5-Trioxyphenyl]- α -Dodeken. Sm. 97,5° (Ar. 242, 103 C. 1904 [1] 1008).
- $C_{21}H_{30}O$ 1) α -Takoresen. Sm. 93—95° (Ar. 242, 397 C. 1904 [2] 528).

- $C_{21}H_{14}O$ 3) Laktukol. Sm. 154,5° (*C. 1904* [1] 1162; *M. 25*, 789 *C. 1904* [2] 1138).
 $C_{21}H_{34}O_2$ 2) Acetat d. Spongosterin. Sm. 124,5° (*H. 41*, 114 *C. 1904* [1] 996).
 $C_{21}H_{38}O$ 2) Beljoresen. Sm. 168—170° (*Ar. 240*, 593 *C. 1903* [1] 164).
 $C_{21}H_{38}O_3$ C 75,0 — H 10,7 — O 14,3 — M. G. 336.
 1) Cyklogallipharsäure. Sm. 89°. Ca, Ag, Pyridinsalz (*Ar. 242*, 257 *C. 1904* [1] 1653).
 $C_{21}H_{38}O_4$ C 71,2 — H 10,7 — O 18,1 — M. G. 354.
 1) Methylester d. Acetylricinolsäure. Sd. 260°₁₃ (*B. 36*, 786 *C. 1903* [1] 824).
 2) Diäthylester d. Säure $C_{17}H_{30}O_4$. Sm. 26—27° (*Soc. 85*, 860 *C. 1904* [2] 604).
 $C_{21}H_{38}O_5$ C 68,1 — H 10,3 — O 21,6 — M. G. 370.
 1) Diäthylester d. Säure $C_{17}H_{30}O_5$. Sm. 53° (*Soc. 85*, 861 *C. 1904* [2] 604).
 $C_{21}H_{40}O_2$ 4) Gynocardiasäure. Sm. 29,5° (*C. 1904* [1] 1607).
 $C_{21}H_{40}O_3$ C 74,1 — H 11,8 — O 14,1 — M. G. 340.
 1) Propylester d. Ricinolsäure. Sd. 268°₁₃ (*B. 36*, 784 *C. 1903* [1] 823).
 2) Isopropylester d. Ricinolsäure. Sd. 260°₁₀ (*B. 36*, 784 *C. 1903* [1] 823).
 $C_{21}H_{40}O_4$ *3) α -Oleat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 35° (*C. 1903* [1] 133; *B. 36*, 4343 *C. 1904* [1] 434).
 4) Phellogensäure. Sm. 121°. Na_2 (*M. 25*, 284 *C. 1904* [1] 1573).
 5) Isophellogensäure. Sm. 100°. Na_2 (*M. 25*, 289 *C. 1904* [1] 1573).
 $C_{21}H_{42}O_4$ *1) α -Stearat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 78° (73°) (*C. 1903* [1] 133; *B. 36*, 4343 *C. 1904* [1] 434).

— 21 III —

- $C_{21}H_{12}O_2N_2$ 3) Azin (aus Morphenolchinon u. o-Toluyldiamin) (*B. 33*, 357). — *III, 322.
 $C_{21}H_{12}O_4N_2$ C 70,8 — H 3,4 — O 18,0 — N 7,8 — M. G. 356.
 1) 2-[2-Nitrobenzyliden]amido-9,10-Anthrachinon. Sm. 216—218° (*C. 1904* [1] 290).
 2) 2-[3-Nitrobenzyliden]amido-9,10-Anthrachinon. Sm. 245—246° (*C. 1904* [1] 290).
 3) 2-[4-Nitrobenzyliden]amido-9,10-Anthrachinon. Sm. 246—249° (*C. 1904* [1] 290).
 $C_{21}H_{12}O_5N_2$ C 67,7 — H 3,2 — O 21,5 — N 7,5 — M. G. 372.
 1) 9,10-Anthrachinon-2-Azosalicylsäure. Sm. 270° u. Zers. (*C. 1904* [1] 289).
 $C_{21}H_{12}O_7N_2$ 3) 4,4'-Dinitro-1,1'-Dioxy-2,2'-Dinaphtylketon. Sm. 140° u. Zers. (*A. 330*, 105 *C. 1904* [1] 1076).
 $C_{21}H_{12}O_6N_2$ C 57,8 — H 2,7 — O 33,0 — N 6,4 — M. G. 436.
 1) Aldehyd d. 3,4-Di[β -Nitrobenzoxyl]benzol-1-Carbonsäure (*B. 36*, 2930 *C. 1903* [2] 888).
 $C_{21}H_{13}ON$ 5) Akridinderivat (aus Alizarinirisol) (*C. 1904* [1] 101).
 $C_{21}H_{13}OBr$ 4) Dinaphthopyroxoniumbromid (*C. r. 136*, 381 *C. 1903* [1] 648).
 $C_{21}H_{13}O_2N$ C 81,0 — H 4,2 — O 10,3 — N 4,5 — M. G. 311.
 1) 2-Benzylidenamido-9,10-Anthrachinon. Sm. 185—187° (*C. 1904* [1] 290).
 $C_{21}H_{13}O_3N$ 5) 2-[2-Oxybenzyliden]amido-9,10-Anthrachinon. Sm. 229—231° (*C. 1904* [1] 290).
 6) 2-[4-Oxybenzyliden]amido-9,10-Anthrachinon. Sm. 258° (*C. 1904* [1] 290).
 $C_{21}H_{13}O_4N$ 3) 3-Phenyl- β -Naphtochinolin- β -Dicarbonsäure? Sm. 215—220° (*C. r. 139*, 298 *C. 1904* [2] 714).
 $C_{21}H_{13}O_5Br$ 1) 2',3-Lakton d. 1-Keto-3-Aethoxyl-2-[2-Brom-2-Oxy-1,3-Diketo-2,3-Dihydro-2-Indenyl]-2,3-Dihydroinden-3-Carbonsäure. Sm. 211° (*B. 35*, 3964 *C. 1903* [1] 33).
 $C_{21}H_{13}NCl_2$ 1) α -Naphtakridindichlorid. Sm. 158° (*Soc. 85*, 1204 *C. 1904* [2] 1060).
 $C_{21}H_{13}NJ_2$ 1) β -Naphtakridindijodid. Sm. 270—273° (*Soc. 85*, 1205 *C. 1904* [2] 1060).
 $C_{21}H_{14}O_2N_2$ 3) 6-Phenylazo-3-Phenyl-1,2-Benzpyron. Sm. 205° (*B. 37*, 4132 *C. 1904* [2] 1736).

- $C_{21}H_{14}O_3N_2$ 12) Amid d. 1,3-Diketo-2-Phenyl-1,3-Dihydroisindol-2³-Carbonsäure (Anilid d. o-Phthalimidobenzoësäure). Sm. 205° (*J. pr.* [2] 69, 27 *C.* 1904 [1] 641).
- 13) Verbindung (aus 2-Amidobenzol-1-Carbonsäure u. Benzol-1,2-Dicarbon-säureimid). Sm. 180° (*J. pr.* [2] 69, 26 *C.* 1904 [1] 641).
- $C_{21}H_{14}O_4Br_2$ 1) Dibenzot d. 3,5-Dibrom-2-Oxy-1-Oxymethylbenzol. Sm. 121—122° (*A.* 332, 200 *C.* 1904 [2] 211).
- $C_{21}H_{14}O_6N_2$ 1) 4,4'-Dinitro-1,1'-Dioxy-2,2'-Dinaphtylmethan. Zers. oberh. 200° (*A.* 330, 104 *C.* 1904 [1] 1076).
- $C_{21}H_{14}N_6Br$ 1) Brom-p-Tolyindophenazin. Sm. 290—291° (*B.* 35, 4336 *C.* 1903 [1] 293).
- $C_{21}H_{15}ON$ *3) 2,4,5-Triphenyloxazol. Sm. 115° (*B.* 35, 4137 *C.* 1903 [1] 295).
- *7) 2-Oxy-1-[1-Naphtylimido]methylnaphtalin. Sm. 178° (*B.* 36, 1975 *C.* 1903 [2] 378).
- 11) 2-Oxy-1-[2-Naphtylimido]methylnaphtalin. Sm. 143° (*B.* 36, 1975 *C.* 1903 [2] 378).
- $C_{21}H_{15}OCl$ 12) 7-Oxy-2,4-Diphenylchinolin. Sm. 272° (*B.* 36, 4017 *C.* 1904 [1] 293).
- 2) γ -Keto- $\beta\gamma$ -Diphenyl- α -[2-Chlorphenyl]propen. Sm. 113° (*B.* 35, 3970 *C.* 1903 [1] 31).
- 3) isom. γ -Keto- $\beta\gamma$ -Diphenyl- α -[2-Chlorphenyl]propen. Sm. 92° (*B.* 35, 3970 *C.* 1903 [1] 31).
- $C_{21}H_{15}O_2N$ 9) 1-Benzylamido-9,10-Anthrachinon. Sm. 188° (D.R.P. 144634 *C.* 1903 [2] 750).
- 10) Lakton d. 5-Oxy-10-Methyl-5-Phenyl-5,10-Dihydroakridin-5²-Carbonsäure. Sm. 245° (*B.* 37, 1009 *C.* 1904 [1] 1276).
- 11) Betaïn d. 10-Methyl-5-Phenylakridin-5²-Carbonsäure. Sm. 245° (*B.* 37, 1010 *C.* 1904 [1] 1277).
- 12) Methylester d. 5-Phenylakridin-5²-Carbonsäure. Sm. 173°. HJ, $H_2Cr_2O_7$, Pikrat (*B.* 37, 1007 *C.* 1904 [1] 1276).
- $C_{21}H_{15}O_2N_3$ 9) 2-[4-Methylamidophenylazo]-9,10-Anthrachinon. Sm. 202—204° (*C.* 1904 [1] 289).
- 10) Benzot d. 5-Oxy-1,4-Diphenyl-1,2,3-Triazol. Sm. 132° (*A.* 335, 105 *C.* 1904 [2] 1232).
- $C_{21}H_{15}O_3N$ 5) 4-[4-Methylphenylamido]-1-Oxy-9,10-Anthrachinon (Chinizarinblau) (*C.* 1904 [2] 339).
- $C_{21}H_{15}O_3N_3$ 4) 2,4,6-Tri[4-Oxyphenyl]-1,3,5-Triazin. Sm. 357° corr. (*B.* 36, 3194 *C.* 1903 [2] 956).
- $C_{21}H_{15}O_4N_3$ C 67,5 — H 4,0 — O 17,2 — N 11,2 — M. G. 373.
- 1) 2,6-Di[β -4-Nitrophenyläthenyl]pyridin. Sm. 168—169°. $HCl + H_2O$, (HCl , $HgCl_2$), (2HCl, $PtCl_4$), (HCl , $AuCl_3$), Pikrat (*B.* 36, 1688 *C.* 1903 [2] 47).
- $C_{21}H_{15}O_6N_5$ *2) m-Trinitrohydrobenzamid (*C.* 1904 [1] 878).
- $C_{21}H_{15}O_6B$ 1) Gem. Anhydrid d. Benzolcarbonsäure u. Borsäure. Sm. 145° (*B.* 36, 2224 *C.* 1903 [2] 421).
- $C_{21}H_{15}O_9N$ C 59,3 — H 3,5 — O 33,9 — N 3,3 — M. G. 425.
- 1) 4-Nitro- α,β -Trioxydiphenylmethan-p-Dicarbon-säure (aus 4-Nitro-benzaldehyd u. Salicylsäure) (D.R.P. 75803). — *II, 1213.
- $C_{21}H_{15}O_9B$ 1) Gem. Anhydrid d. 2-Oxybenzol-1-Carbonsäure u. Borsäure. Sm. 258 bis 259° (*B.* 36, 2224 *C.* 1903 [2] 421).
- $C_{21}H_{16}ON_4$ *1) 4-Phenylhydrazon-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. 170° (*B.* 36, 1135 *C.* 1903 [1] 1254).
- 2) 3-Benzoylamido-1,5-Diphenyl-1,2,4-Triazol. Sm. 159—160°. HCl , H_2SO_4 (*Am.* 29, 77 *C.* 1903 [1] 523).
- 3) Verbindung (aus 4,5-Diketo-1,3-Diphenyl-4,5-Dihydropyrazol). Sm. 240 bis 241° (*B.* 36, 1135 *C.* 1903 [1] 1254).
- $C_{21}H_{16}OCl_2$ 1) γ -Chlor- α -Keto- $\alpha\beta$ -Diphenyl- γ -[2-Chlorphenyl]propan. Sm. 159° (*B.* 35, 3969 *C.* 1903 [1] 31).
- $C_{21}H_{16}O_2N_2$ 10) 1-Methylamido-5-Phenylamido-9,10-Anthrachinon (D.R.P. 139581 *C.* 1903 [1] 680).
- 11) 1-Methylamido-8-Phenylamido-9,10-Anthrachinon (D.R.P. 139581 *C.* 1903 [1] 680).
- 12) 4-Amido-1-[4-Methylphenyl]amido-9,10-Anthrachinon (D.R.P. 125578; D.R.P. 148767 *C.* 1904 [1] 557).

- $C_{21}H_{16}O_2N_2$ 13) 2-[α -Phenylhydrazonäthyl]-3,4- β -Naphtopyron (α -Phenylhydrazon-äthyl- β -Naphtocumarin). Sm. 209—211° u. Zers. (B. 36, 1974 C. 1903 [2] 377).
- 14) 3,7-Dimethyl-5-[3-Nitrophenyl]akridin. Sm. 268° (B. 36, 1024 C. 1903 [1] 1268).
- 15) 3,7-Dimethyl-5-[4-Nitrophenyl]akridin. Sm. 265° (B. 36, 1023 C. 1903 [1] 1268).
- 16) Benzoat d. 2-2-Oxymethylphenylindazol. Sm. 87,5° (C. r. 138, 1277 C. 1904 [2] 121).
- $C_{21}H_{16}O_3N_2$ 9) Tribenzoylhydrazin. Sm. 206° (J. pr. [2] 69, 156 C. 1904 [1] 1274; J. pr. [2] 70, 274 C. 1904 [2] 1544; J. pr. [2] 70, 296, 300 C. 1904 [2] 1566).
- 10) 6-Oxyazobenzol-3-[α -Phenylakrylsäure]. Sm. 247° (B. 37, 4133 C. 1904 [2] 1736).
- $C_{21}H_{16}O_3Br_2$ 3) Acetat d. 3,5-Dibrom- α ,4-Dioxytriphenylmethan. Sm. 171—172° (B. 34, 3078 C. 1903 [2] 884).
- $C_{21}H_{16}O_4N_2$ 6) Dibenzoat d. 1,4-Dioximido-2-Methyl-1,4-Dihydrobenzol. Zers. bei 196° (G. 33 [1] 240 C. 1903 [1] 1409).
- $C_{21}H_{16}O_9Cl_4$ *1) Tetrachlorbarbaloin + $\frac{1}{2}H_2O$. Na_3 (C. 1903 [1] 234; Bl. [3] 27, 1227 C. 1903 [1] 401).
- 2) Tetrachlorisobarbaloin + $5H_2O$ (C. 1903 [1] 235; C. r. 127, 236; Bl. [3] 23, 788). — *III, 454.
- $C_{21}H_{16}O_9Br_4$ 1) Tetrabrombarbaloin + $4H_2O$ (C. 1903 [1] 235). — *III, 453.
- 2) Tetrabromisobarbaloin. Sm. 191° (B. 23 [2] 207; C. 1898 [2] 582; Bl. [3] 21, 670 Anm.; C. 1903 [1] 235). — *III, 454.
- $C_{21}H_{16}N_2S$ *2) s-2,2-Dinaphtylthioharnstoff. Sm. 192—193°; Sd. 293° (C. r. 139, 451 C. 1904 [2] 1114).
- $C_{21}H_{16}N_3Cl$ 1) 5-Imido-4-[4-Chlorphenyl]-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. 149° (J. pr. [2] 67, 380 C. 1903 [1] 1356).
- 2) 1-[4-Chlor-2-Methylphenyl]-3,5-Diphenyl-1,2,4-Triazol. Sm. 103 bis 104° (J. pr. [2] 67, 502 C. 1903 [2] 251).
- $C_{21}H_{17}ON$ 8) α -[oder β]-Phenylamido- γ -Keto- $\alpha\gamma$ -Diphenylpropen. Sm. 103—104° (Soc. 85, 1326 C. 1904 [2] 1645).
- 9) 3-Methyl-1,1-Diphenyl-2,4-Benzoxazin. Sm. 134,5—137° (B. 37, 3197 C. 1904 [2] 1472).
- $C_{21}H_{17}ON_3$ 10) Verbindung (aus o-Amidobenzaldehyd) (B. 36, 835 C. 1903 [1] 1028).
- $C_{21}H_{17}OBr$ 1) β -Brom- γ -Keto- $\alpha\gamma$ -Triphenylpropan. Sm. 173° (Am. 29, 358 C. 1903 [1] 1180; Am. 31, 652 C. 1904 [2] 446).
- $C_{21}H_{17}O_2N$ *1) Benzilimid. Sm. 138—139° (B. 35, 4138 C. 1903 [1] 295).
- *9) 6-Benzoylamido-3-Methyldiphenylketon. Sm. 118° (Soc. 85, 596 C. 1904 [1] 1554).
- 12) γ -[3-Oxyphenyl]imido- α -Oxy- $\alpha\gamma$ -Diphenylpropen. Sm. 172° (B. 36, 4017 C. 1904 [1] 293).
- 13) Phenylamidodibenzoylmethan. Sm. 168—169° (B. 37, 2528 C. 1904 [2] 336).
- 14) Benzoyl-4-Methylbenzoylamidobenzol. Sm. 159—160° (C. r. 137, 714 C. 1903 [2] 1428).
- 15) 4-Benzoylamido-3-Methyldiphenylketon. Sm. 158° (Soc. 85, 593 C. 1904 [1] 1554).
- 16) o,p,ana-Trimethylchinophtalon. Sm. 284° (B. 37, 3017 C. 1904 [2] 1409).
- 17) o,p,ana-Trimethylisochinophtalon. Sm. 236° (B. 37, 3017 C. 1904 [2] 1409).
- 18) Benzoat d. 1-Oxy-2-[2-Pyridyl]-2,3-Dihydroinden. Sm. 36—37° (B. 36, 1656 C. 1903 [2] 39).
- 19) Phenylamidoformiat d. 2-Oxy- $\alpha\alpha$ -Diphenyläthen. Sm. 105° (und 86°) (B. 36, 4000 C. 1904 [1] 174).
- $C_{21}H_{17}O_2N_3$ *6) s-Dibenzoylphenylguanidin. Sm. 187° (B. 37, 1683 C. 1904 [1] 1491).
- $C_{21}H_{17}O_3N_3$ 20) Methylhydroxyd d. 5-Phenylakridin-5'-Carbonsäure. Jodhydrat, Bichromat, Pikrat (B. 37, 1010 C. 1904 [1] 1277).
- 21) Äthylester d. Naphtostyrylphenylessigsäure + H_2O . Sm. 105—106° (111—112° wasserfrei) (B. 35, 4222 C. 1903 [1] 166).
- 22) Benzoat d. 3-Benzoylamido-1-Oxymethylbenzol. Sm. 113—114° (B. 37, 3941 C. 1904 [2] 1597).

- C₂₁H₁₇O₈N** 23) α -Benzoat d. β -Oximido- α -Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 148° (Soc. 85, 453 C. 1904 [1] 954, 1445).
 24) β -Benzoat d. β -Oximido- α -Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 165—166° (Soc. 85, 451 C. 1904 [1] 954, 1445).
 25) 2-Methylphenylamid d. 2-Benzoxylbenzol-1-Carbonsäure. Sm. 136° (G. 34 [1] 272 C. 1904 [1] 1499).
 26) Phenyl-4-Methoxylbenzoylamid d. Benzolcarbonsäure. Sm. 162 bis 163° (Am. 30, 36 C. 1903 [2] 363).
- C₂₁H₁₇O₈N₃** 6) N-Benzoat d. α -Oximido- α -Phenylazo- α -[4-Oxyphenyl]methan-4-Methyläther. Sm. 129—129,5° (B. 36, 67 C. 1903 [1] 451).
 7) Phenylamid d. 4-Benzoxyl-3-Methylphenylazoameisensäure. Sm. 150° u. Zers. (A. 334, 193 C. 1904 [2] 835).
- C₂₁H₁₇O₅N₃** 3) 4-Methyläther d. 5-Nitro-3-Benzoxyl-4-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 205—206° (B. 35, 4399 C. 1903 [1] 341).
 4) Semicarbazol d. Verb. C₂₀H₁₄O₅. Sm. 239° (B. 36, 3233 C. 1903 [2] 941).
 C 57,9 — H 3,9 — O 22,1 — N 16,1 — M. G. 435.
- C₂₁H₁₇O₈N₅** $\alpha\alpha$ -Di[4-Nitrobenzyl]- β -[2-Nitrobenzyliden]hydrazin. Sm. 120° (R. 22, 439 C. 1904 [1] 15).
- C₂₁H₁₇O₆Br** 1) Acetylbromotrimethyldehydrobrasilin. Sm. 271—274° (B. 36, 399 C. 1903 [1] 587). — *III, 451.
- C₂₁H₁₇O₉Br₃** 1) Tribrombarbaloin (C. 1903 [1] 235). — *III, 453.
- C₂₁H₁₇N₃S** 6) 1,5-Diphenyl-4-[2-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 249—250° u. Zers. (J. pr. [2] 67, 221 C. 1903 [1] 1261).
 7) 1,5-Diphenyl-4-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 301—303° u. Zers. (J. pr. [2] 67, 220 C. 1903 [1] 1261).
 8) 1,5-Diphenyl-4-Benzyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 236° (J. pr. [2] 67, 218 C. 1903 [1] 1260).
 9) 4,5-Diphenyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 340° (J. pr. [2] 67, 258 C. 1903 [1] 1265).
- C₂₁H₁₈ON₂** 17) β -Imido- β -Phenylbenzoylamido- α -Phenyläthan. Sm. 110—111° (C. 1903 [2] 831).
 18) α -Phenylimido- α -Benzoylamido- α -[4-Methylphenyl]methan. Sm. 126° (C. 1903 [2] 831).
 19) α -[2-Methylphenyl]imido- α -Benzoylamido- α -Phenylmethan. Sm. 111—113° (C. 1903 [2] 831).
 20) N-Aethyl-o-Methylchinophthalin. Sm. 198° (B. 36, 3919 C. 1904 [1] 98).
- C₂₁H₁₈ON₄** 4) Methyläther d. 3-[4-Oxyphenyl]amido-1,5-Diphenyl-1,2,4-Triazol. Sm. 224—225° (Am. 32, 368 C. 1904 [2] 1507).
- C₂₁H₁₈OS** 3) Aethyläther d. 9-Oxy-9-Phenylthioxanthen. Sm. 76—77° (B. 37, 2937 C. 1904 [2] 1143).
 4) Verbindung (aus Dibenzylsulfoxyd u. Benzaldehyd). Sm. 203° (B. 36, 544 C. 1903 [1] 707).
- C₂₁H₁₈O₂N₂** *16) $\alpha\beta$ -Dibenzoyl- α -Benzoylhydrazin. Sm. 152° (J. pr. [2] 70, 278 C. 1904 [2] 1545).
 20) 4-Oxy-3-Benzoylphenylhydrazonmethyl-1-Methylbenzol. Sm. 155° (B. 35, 4107 C. 1903 [1] 150).
 21) $\alpha\epsilon$ -Diketo- γ -Phenyl- $\alpha\epsilon$ -Di[2-Pyridyl]pentan. Sm. 152° (B. 35, 4062 C. 1903 [1] 91).
 22) Benzoat d. 4-Oxy-3-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 161° (B. 35, 4107 C. 1903 [1] 150).
- C₂₁H₁₈O₂N₄** 14) α -Imido- α -Benzoylamido- α -[β -Benzoyl- β -Phenylhydrazido]methan. Sm. 156° (Am. 29, 79 C. 1903 [1] 523).
- C₂₁H₁₈O₂S₂** 1) Dibenzyläther d. 3,6-Dimerkapto-2-Methyl-1,4-Benzochinon. Sm. 67—68° (A. 336, 166 C. 1904 [2] 1301).
- C₂₁H₁₈O₃N₂** 13) 4-Methyläther d. 3-Benzoxyl-4-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 187° (B. 35, 4399 C. 1903 [1] 341).
 14) 4-Oxyazobenzol-2-[α -Phenylpropionsäure]. Sm. 177° (B. 37, 4134 C. 1904 [2] 1736).
 15) 4-Oxyazobenzol-3-[α -Phenylpropionsäure]. Sm. 152—153° (B. 37, 4133 C. 1904 [2] 1736).
 16) 6-Oxyazobenzol-3-[α -Phenylpropionsäure]. Sm. 159° (B. 37, 4135 C. 1904 [2] 1736).

- $C_{21}H_{18}O_3N_2$ 17) 8-[2-Oxy-1-Naphtyl]azo-1,2,3,4-Tetrahydronaphtalin-1-Carbonsäure (B. 35, 4224 C. 1903 [1] 166).
 18) Säure (aus d. Verb. $C_{23}H_{24}O_4N_2$). Sm. 180° (B. 36, 2125 C. 1903 [2] 365).
 19) Phenylamid d. α -Phenylamidoformoxyl- α -Phenyllessigsäure. Sm. 163° (Bl. [3] 29, 127 C. 1903 [1] 564).
- $C_{21}H_{18}O_8N_4$ 2) 2-Oxy-3,5-Di[Phenylazo]benzol-1-Propionsäure. Sm. 194° (B. 37, 4130 C. 1904 [2] 1735).
 3) 3-Oxy-4,6-Di[Phenylazo]benzol-1-Propionsäure. Sm. 179—180° (B. 37, 4131 C. 1904 [2] 1735).
 6) α - ϵ -Di[Phthalylamido]pentan. Sm. 186° (B. 37, 3584 C. 1904 [2] 1407).
- $C_{21}H_{18}O_4N_2$ 6) α - ϵ -Di[Phthalylamido]pentan. Sm. 186° (B. 37, 3584 C. 1904 [2] 1407).
 $C_{21}H_{18}O_6N_4$ C 62,1 — H 4,4 — O 19,7 — N 13,8 — M. G. 406.
 1) $\alpha\alpha$ -Di[4-Nitrobenzyl]- β -[2-Oxybenzyliden]hydrazin. Sm. 183° (R. 22, 439 C. 1903 [2] 15).
- $C_{21}H_{18}O_8N_2$ C 59,1 — H 4,2 — O 30,0 — N 6,6 — M. G. 426.
 1) Diacetat d. 2-Keto-5,6-Dioxy-1-[3-Nitro-4-Dimethylamidobenzyliden]-1,2-Dihydrobenzofuran. Sm. 212° (B. 37, 825 C. 1904 [1] 1152).
- $C_{21}H_{18}NJ$ 2) Jodmethylat d. 5-Benzylakridin (B. 37, 1565 C. 1904 [1] 1447).
 $C_{21}H_{18}N_8Cl_3$ 1) trimolec. Anhydroformaldehyd-4-Chloranilin. Sm. 157° (B. 36, 47 C. 1903 [1] 505).
 2) isom. trimolec. Anhydroformaldehyd-4-Chloranilin. Sm. 225° (B. 36, 47 C. 1903 [1] 505).
- $C_{21}H_{19}ON$ 19) 4-Methylbenzylamidodiphenylketon. Sm. 78—79° (D.R.P. 41751). — *III, 147.
 20) γ -Oximido- $\alpha\gamma$ -Triphenylpropan. Sm. 131° (Am. 31, 650 C. 1904 [2] 446).
 21) 2-Acetylamidotriphenylmethan. Sm. 154—155° (B. 37, 3199 C. 1904 [2] 1472).
 22) Methylhydroxyd d. 5-Benzylakridin. Jodid, Pikrat (B. 37, 1565 C. 1904 [1] 1447).
 23) Phenylamid d. $\beta\beta$ -Diphenylpropionsäure. Sm. 167° (Am. 31, 651 C. 1904 [2] 446).
- $C_{21}H_{19}ON_3$ 8) α -Benzylidenamido- β -Phenyl- α -Benzylharnstoff. Sm. 152° (B. 37, 2327 C. 1904 [2] 313).
 9) α -Benzylidenamido- α -[2-Methylphenyl]- β -Phenylharnstoff. Sm. 118° (B. 36, 1371 C. 1903 [1] 1342).
 10) α -Benzylidenamido- α -[4-Methylphenyl]- β -Phenylharnstoff. Sm. 176 bis 177° (B. 36, 1374 C. 1903 [1] 1343).
- $C_{21}H_{19}O_2N$ *8) β -Benzoylamido- α -Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 235—236° (B. 37, 3942 C. 1904 [2] 1597).
 11) isom. β -Benzoylamido- α -Oxy- $\alpha\beta$ -Diphenyläthan (N-Benzoyliso-diphenyloxyäthylamin). Sm. 233° (B. 37, 3943 C. 1904 [2] 1597).
 12) r- β -[2-Oxybenzyliden]amido- α -Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 113° (B. 36, 2342 Anm. C. 1903 [2] 410).
 13) α -Oxy-2-Acetylamidotriphenylmethan. Sm. 192° (B. 37, 3197 C. 1904 [2] 1472).
 14) Acetyltriphenylmethylhydroxylamin. Sm. 98—102° (B. 37, 3152 C. 1904 [2] 1047).
 15) Phenylester d. Dibenzylamidoameisensäure. Sd. 282—284°₂₅ (Bl. [3] 31, 21 C. 1904 [1] 508).
 16) Phenylamidoformiat d. 2-Oxy- $\alpha\alpha$ -Diphenyläthan. Sm. 99° (B. 36, 4009 C. 1904 [1] 175).
 17) Phenylamidoformiat d. 4-Oxy- $\alpha\alpha$ -Diphenyläthan. Sm. 111° (B. 36, 4013 C. 1904 [1] 176).
 18) Phenylamidoformiat d. 4-Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 150° (B. 36, 4010 C. 1904 [1] 176).
 19) Phenylamidoformiat d. Phenol $C_{14}H_{14}O$. Sm. 139° (B. 36, 3986 C. 1904 [1] 171).
- $C_{21}H_{19}O_2N_8$ 10) 6-Phenylamido-3,4'-Dimethylazobenzol-6'-Carbonsäure? Sm. 226 bis 227° (D.R.P. 146950 C. 1903 [2] 1402; D.R.P. 150469 C. 1904 [1] 1115).
 11) 4-Phenylamido-2',3'-Dimethylazobenzol-4'-Carbonsäure? Sm. 217 bis 218° (D.R.P. 146950 C. 1903 [2] 1402; D.R.P. 150469 C. 1904 [1] 1115).

- $C_{21}H_{19}O_2Cl$ 1) Dimethyläther d. α -Chlor-3,4-Dioxytriphenylmethan. Sm. 148,5° (B. 37, 3333 C. 1904 [2] 1050).
2) Dimethyläther d. α -Chlor-4,4'-Dioxytriphenylmethan. Sm. 114 bis 115° (B. 36, 2787 C. 1903 [2] 882).
- $C_{21}H_{19}O_5N$ 3) Acetat d. γ -Keto- γ -[5-Diacetylamido-2-Oxyphenyl]- α -Phenylpropen. Sm. 147° (B. 37, 2827 C. 1904 [2] 704).
- $C_{21}H_{19}O_6N$ 4) Diacetat d. 5,6-Dioxy-2-Keto-1-[4-Dimethylamidobenzyliden]-1,2-Dihydrobenzofuran. Sm. 182° (215°) (B. 29, 2434; B. 37, 823 C. 1904 [1] 1151). — *III, 532.
- $C_{21}H_{19}O_6N_3$ C 61,6 — H 4,6 — O 23,5 — N 10,3 — M. G. 409.
1) Semicarbazon d. Verb. $C_{20}H_{16}O_8$. Sm. 265° u. Zers. (B. 36, 3232 C. 1903 [2] 941).
- $C_{21}H_{19}O_6N_5$ 2) 2,4,6-Trinitro-3,5-Di[4-Methylphenylamido]-1-Methylbenzol. Sm. 185° (B. 23, 128 C. 1904 [2] 201).
- $C_{21}H_{19}O_8N$ 2) Verbindung (aus d. Verb. $C_{13}H_{14}O_4N_2$). Zers. bei 220—270° (G. 34 [1] 345 C. 1904 [2] 194).
- $C_{21}H_{19}NS$ 1) 4-Benzylidenamido-3,4'-Dimethyldiphenylsulfid. HCl (J. pr. [2] 68, 288 C. 1903 [2] 995).
- $C_{21}H_{19}N_3S$ 3) α -Benzylidenamido- β -Phenyl- α -Benzylthioharnstoff. Sm. 132° (B. 37, 2329 C. 1904 [2] 313).
- $C_{21}H_{19}N_3S_2$ 1) Benzyläther d. α -[β -Phenylthioureido]- α -Phenylimido- α -Merkapto-methan. Sm. 98—100° (Am. 30, 177 C. 1903 [2] 872).
- $C_{21}H_{20}ON_2$ *19) β -Benzoyl- α -Dibenzylhydrazin. Sm. 166—168° (A. 329, 364 C. 1904 [1] 442).
20) Äthyläther d. α -Oxy- α -Phenylimido- α -Diphenylamidomethan (Äthylisotriphenylharnstoff). Sm. 48—50° (B. 37, 965 C. 1904 [1] 1002).
21) $\alpha\beta$ -Diphenyl- α -[α -Phenyläthyl]harnstoff. Sm. 94—95° (B. 37, 2693 C. 1904 [2] 519).
22) α -Benzoyl- $\alpha\beta$ -Dibenzylhydrazin. Sm. 85—87° (A. 329, 364 C. 1904 [1] 442).
23) α -Benzoyl- $\alpha\beta$ -Di[2-Methylphenyl]hydrazin. Sm. 123,5—124° (C. r. 136, 1555 C. 1903 [2] 359).
24) α -Benzoyl- $\alpha\beta$ -Di[4-Methylphenyl]hydrazin. Sm. 189° (B. 36, 140 C. 1903 [1] 507).
- $C_{21}H_{20}ON_4$ *5) 2-Oxy-3,5-Di[2-Methylphenylazo]-1-Methylbenzol. Sm. 146—147° (B. 37, 2575 C. 1904 [2] 658).
- $C_{21}H_{20}OCl_2$ 1) Dicinnamylidenacetondihydrochlorid (B. 36, 1477 C. 1903 [1] 1348).
- $C_{21}H_{20}O_2N_2$ 17) Dimethyläther d. α -Phenylhydrazon- $\alpha\alpha$ -Di[4-Oxyphenyl]methan. Sm. 123—124° (B. 36, 655 C. 1903 [1] 768).
- $C_{21}H_{20}O_2N_4$ 7) 4,4'-Di[Methylnitrosamido]triphenylmethan. Sm. 149° u. Zers. (B. 37, 641 C. 1904 [1] 950).
8) α -Phenylureido- β -Phenyl- α -Benzylharnstoff. Sm. 222° (B. 37, 2326 C. 1904 [2] 312).
- $C_{21}H_{20}O_2N_6$ 2) 1,4-Di[β -Phenylsemicarbazon]-2-Methyl-1,4-Dihydrobenzol. Zers. bei 246° (A. 334, 191 C. 1904 [2] 835).
- $C_{21}H_{20}O_2S_2$ 1) 3,6-Dibenzyläther d. 3,6-Dimerkapto-2,5-Dioxy-1-Methylbenzol. Sm. 113° (A. 336, 165 C. 1904 [2] 1300).
- $C_{21}H_{20}O_8N_2$ 2) Monophenylhydrazon d. ϵ -Keto- δ -Acetyl- α -[3,4-Dioxyphenyl]- $\alpha\gamma$ -Hexadien-3,4-Methylenäther. Sm. 160—161° (B. 37, 1700 C. 1904 [1] 1497).
- $C_{21}H_{20}O_3N_4$ C 67,0 — H 5,3 — O 12,8 — N 14,9 — M. G. 376.
1) α -Oxy-4,4'-Di[Methylnitrosamido]triphenylmethan. Sm. 159° u. Zers. (B. 37, 644 C. 1904 [1] 951).
- $C_{21}H_{20}O_5S$ 1) 4,4'-Dioxytriphenylmethandimethyläther- α -Sulfonsäure. $Na + H_2O$ (B. 36, 2788 C. 1903 [2] 882).
- $C_{21}H_{20}NJ$ 1) Jodmethylat d. 5,7-Diphenyl-2,3-Dihydro-4-Isobenzazol. Sm. 240 bis 241° u. Zers. (B. 35, 3977 C. 1903 [1] 37).
- $C_{21}H_{20}N_2S$ 5) α -Phenyl- $\beta\beta$ -Dibenzylthioharnstoff. Sm. 145—146° (Soc. 63, 539). — *II, 1245.
- $C_{21}H_{20}N_2S_2$ 2) 4-Methylphenyläther d. α -Phenyl- β -[4-Merkapto-2-Methylphenyl]-thioharnstoff. Sm. 143° (J. pr. [2] 68, 287 C. 1903 [2] 995).
3) 4-Methylphenyläther d. α -Phenyl- β -[4-Merkapto-3-Methylphenyl]-thioharnstoff. Sm. 147° (J. pr. [2] 68, 293 C. 1903 [2] 995).

- $C_{21}H_{20}N_4S_2$ 4) Methylester d. α -Phenyl- α -[α -Phenylhydrazonbenzyl]hydrazin- β -Dithiocarbonsäure. Sm. 145–146° u. Zers. (*J. pr.* [2] 67, 235 C. 1903 [1] 1262).
- $C_{21}H_{21}ON$ 4) α -Oxy-2-Dimethylamidotriphenylmethan. Sm. 156–160°. HCl + H_2O , Pikrat (*B.* 37, 3204 C. 1904 [2] 1472).
5) α -Oxy-4-Dimethylamidotriphenylmethan. Sm. 92–93°. Oxalat (*B.* 37, 2857 C. 1904 [2] 775).
6) 4-Diäthylamidophenyl-2-Naphtylketon. Sm. 74–75° (D.R.P. 52853). — *III, 195.
- $C_{21}H_{21}ON_3$ 6) 4-Methylphenylamid d. Di[Phenylamido]essigsäure (*A.* 332, 264 C. 1904 [2] 699).
- $C_{21}H_{21}OP$ 1) Tribenzylphosphinoxid. Sm. 217° (*C. r.* 139, 675 C. 1904 [2] 1638).
 $C_{21}H_{21}O_2N_3$ *4) 3'-Nitro-6'',6''-Diamido-3',3'-Dimethyltriphenylmethan. Sm. 183° (123°?) (*B.* 36, 1024 C. 1903 [1] 1268).
*5) 4'-Nitro-6'',6''-Diamido-3',3'-Dimethyltriphenylmethan. Sm. 172° (*B.* 36, 1022 C. 1903 [1] 1268).
C 69,4 — H 5,8 — O 13,2 — N 11,6 — M. G. 363.
- $C_{21}H_{21}O_3N_3$ 1) 1-Phenylamid d. 6-Methyl-3-Phenyl-1,4-Dihydro-1,2-Diazin-1,3-Dicarbonsäure-5-Aethylester. Sm. 192° (*A.* 331, 314 C. 1904 [2] 46).
- $C_{21}H_{21}O_4N$ *3) Dehydrocorybulbin + $5H_2O$. Sm. 175–178° (wasserfrei). HCl, (2HCl, PtCl₄) (*Ar.* 241, 637 C. 1904 [1] 181).
4) Dehydroisocorybulbin. HJ (*Ar.* 241, 651 C. 1904 [1] 182).
5) Pseudopapaverin. HCl, (2HCl, PtCl₄ + $2H_2O$), HJ + $3H_2O$ (*J. pr.* [2] 68, 196 C. 1903 [2] 838).
- $C_{21}H_{21}O_4N_3$ *5) Methylester d. 3-Semicarbazon-2-Benzoyl-1-Phenyl-R-Pentamethylen-5-Carbonsäure. Sm. 232° (*A.* 326, 376 C. 1903 [1] 1126).
C 63,8 — H 5,3 — O 20,2 — N 10,6 — M. G. 395.
- $C_{21}H_{21}O_5N_3$ 1) o-Nitranilnazodesmotroposantonin. Sm. 275° u. Zers. (*B.* 36, 1392 C. 1903 [1] 1360).
- $C_{21}H_{21}O_5Br_3$ 1) 6-Acetat-2,4-Diäthyläther d. $\alpha\beta$ -Dibrom- γ -Keto- γ -[β -Brom-2,4,6-Trioxypheyl]- α -Phenylpropan. Sm. 169–170° u. Zers. (*B.* 32, 2266). — *III, 168.
- $C_{21}H_{21}O_6N$ *1) Hydrastin (*Soc.* 83, 617 C. 1903 [1] 590; *Ar.* 241, 269 C. 1903 [2] 447).
*4) Nitril d. Phenyl-o-Glykocumarsäure. Sm. 169–170° (*C.* 1903 [1] 89).
- $C_{21}H_{21}O_7N$ 5) Acetylderivat d. β -Trimethylbrasilonoxim. Sm. 179–182° (*B.* 36, 398 C. 1903 [1] 587). — *III, 480.
- $C_{21}H_{21}O_{10}N$ *1) Acetylnitrotrimethylbrasilon (*M.* 25, 889 C. 1904 [2] 1313).
 $C_{21}H_{21}ClSn$ 1) Zinntribenzylchlorid. Sm. 127–130° (*B.* 37, 321 C. 1904 [1] 637).
 $C_{21}H_{22}ON_2$ 4) α -Oxy-4,4'-Di[Methylamido triphenylmethan. Sm. 95°. (2HCl, ZnCl₂ + H_2O) (*B.* 37, 643 C. 1904 [1] 951).
5) Äthyläther d. α -[4-Oxyphenyl]imido- α -Dimethylamido- α -[1-Naphtyl]methan. Sm. 150° (*B.* 37, 2685 C. 1904 [2] 522).
6) 4-Dimethylamidophenyl-4-Aethylamido-1-Naphtylketon. Sm. 156 bis 157° (162°) (D.R.P. 84655; C. 1903 [1] 87; *B.* 37, 1902 C. 1904 [2] 115).
- $C_{21}H_{22}OSn$ 1) Zinntribenzylhydroxyd (*B.* 37, 322 C. 1904 [1] 637).
 $C_{21}H_{22}O_2N_2$ *1) Strychnin. Nitroprussidwasserstoffsalt (*C.* 1903 [2] 385).
5) Oxim d. Ketoapocinchenäthyläther. Sm. 181–184° (*J. pr.* [2] 61, 26). — *III, 634.
- $C_{21}H_{22}O_3N_2$ 1) Anilinazodesmotroposantonin. Sm. 260° (*B.* 36, 1391 C. 1903 [1] 1359).
- $C_{21}H_{22}O_4Br_2$ 1) Diacetat d. 3,3'-Dibrom-4,4'-Dioxy-2,5,2',5'-Tetramethyldiphenylmethan. Sm. 178–179° (*B.* 36, 1891 C. 1903 [2] 291).
- $C_{21}H_{22}O_6N_2$ 2) $\alpha\epsilon$ -Di[Benzoylamido]pentan-2,2'-Dicarbonsäure (Pentamethylendiphtalaminsäure). Sm. 156° u. Zers. (*B.* 37, 3586 C. 1904 [2] 1407).
3) Triacetylderivat d. Verb. $C_{15}H_{16}O_8N_2$. Sm. 166–167° (*J. pr.* [2] 70, 373 C. 1904 [2] 1566).
C 44,2 — H 3,8 — O 22,5 — N 29,5 — M. G. 570.
- $C_{21}H_{22}O_8N_{12}$ 1) Hydraziazid d. Hippurylasparagylasparaginsäure (*J. pr.* [2] 70, 190 C. 1904 [2] 1397).
- $C_{21}H_{22}NCl$ 1) Methylphenyldibenzylammoniumchlorid. Sm. 159–161° (*Soc.* 83, 1410 C. 1904 [1] 438).
- $C_{21}H_{22}NJ$ 2) Methylphenyldibenzylammoniumjodid. Sm. 134–135° (*Soc.* 83, 1410 C. 1904 [1] 438).

- $C_{21}H_{23}ON$ 2) Methylphenyldibenzylammoniumhydroxyd. d-Camphersulfonat (*Soc.* 83, 1411 *C.* 1904 [1] 438).
- $C_{21}H_{23}O_2N$ 2) Methyläther d. γ -Keto- α -[oder β]-[1-Piperidyl]- γ -[4-Oxyphenyl]- α -Phenylpropen. *Sm.* 127° (*Soc.* 85, 1325 *C.* 1904 [2] 1645).
- $C_{21}H_{23}O_2N_5$ 2) 4-Nitrophenylidi[4,6-Diamido-3-Methylphenyl]methan. *Sm.* 265° (*C.* 1903 [1] 884).
- $C_{21}H_{23}O_8N$ 2) Aethylester d. α -Phenylimido- β -Acetyl- α -Phenylbutan- β -Carbonsäure. *Sm.* 162° (D.R.P. 33497). — *II, 1080.
- $C_{21}H_{23}O_4N$ 8) Tetramethyläther d. 6,7-Dioxy-2-Methyl-1-[3,4-Dioxybenzyliden]-1,2-Dihydroisochinolin (N-Methylisopapaverin). *Sm.* 129—131°. HCl, Pikrat (*B.* 37, 525 *C.* 1904 [1] 818).
- 9) Anhydromethylcotarninacetophenon. *Sm.* 78°. HJ (*B.* 37, 2749 *C.* 1904 [2] 546).
- 10) Aethylester d. Anhydrohydrastininphenylessigsäure. *Sm.* 85—86° (*B.* 37, 2739 *C.* 1904 [2] 544).
- $C_{21}H_{23}O_5N$ *1) β -Homochelidonin. *Sm.* 159° (*C.* 1903 [1] 1142).
- $C_{21}H_{23}O_6N_3$ 2) Methylhydroxyd d. Diazopapaverin. *Sm.* 170°. Jodid, Methylsulfat (*B.* 37, 1935 *C.* 1904 [2] 129).
- 3) p-Nitranilnazo-d-Santonigesäure. *Sm.* 175° (*B.* 36, 1394 *C.* 1903 [1] 1360).
- $C_{21}H_{23}O_6N$ 4) Methyl ester d. Acetylmorphinkohlensäure. *Sm.* 168° (D.R.P. 106718 *C.* 1900 [1] 1085). — *III, 670.
- $C_{21}H_{24}O_2N_2$ *13) Acetylallocochinonin (*M.* 24, 329 *C.* 1903 [2] 578).
- $C_{21}H_{24}O_3N_2$ 7) Anilnazo-d-Santonigesäure. *Sm.* 250° (*B.* 36, 1394 *C.* 1903 [1] 1360).
- 8) Anilnazodesmotroposantonigesäure. *Sm.* 218° (*B.* 36, 1393 *C.* 1903 [1] 1360).
- 9) Benzoat d. δ -Oximido- β -Benzoylmethylamido- β -Methylpentan. *Sm.* 100—103° (*M.* 24, 778 *C.* 1904 [1] 158).
- $C_{21}H_{24}O_5N_2$ 5) Aethylester d. 4,5,6-Trioxo-2-[β -Methylamidoäthyl]-1-Phenylimidomethylbenzol-6-Methyläther-4,5-Methylenäther-1'-Carbonsäure (Ac. d. Cotarninanil-4-Carbonsäure). *Sm.* 147° (*B.* 36, 1528 *C.* 1903 [2] 51).
- $C_{21}H_{24}O_7N_2$ 3) Methylhydroxyd d. 6,7-Dioxy-1-[6-Nitro-3,4-Dioxybenzyl]isochinolin tetramethyläther (*M.* d. Nitropapaverin). Salze siehe (*B.* 37, 1931 *C.* 1904 [2] 128).
- $C_{21}H_{24}O_{12}N_4$ C 48,1 — H 4,6 — O 36,6 — N 10,7 — M. G. 524.
- 1) Hippurylasparagylasparaginsäure. *Sm.* 100° u. Zers. Ba₂, Pb, Ag₄ (*J. pr.* [2] 70, 184 *C.* 1904 [2] 1397).
- $C_{21}H_{25}O_3N_3$ 3) Isonitrosomethylchinin. *Sm.* 90—100° (*B.* 33, 3236). — *III, 629.
- $C_{21}H_{25}O_4N$ *1) Corybulbin. *Sm.* 237—238°. HCl, (HCl, AuCl₃) (*Ar.* 241, 634 *C.* 1904 [1] 180; *Soc.* 83, 625 *C.* 1903 [1] 1364).
- *11) i-Corybulbin. *Sm.* 220—222°. HCl, (2HCl, PtCl₄), (HCl, AuCl₃) (*Ar.* 241, 647 *C.* 1904 [1] 181).
- *12) d-Isocorybulbin. *Sm.* 179—180° (*Ar.* 241, 650 *C.* 1904 [1] 182).
- 14) i-Isocorybulbin. *Sm.* 165—167° (*Ar.* 241, 651 *C.* 1904 [1] 182).
- $C_{21}H_{25}O_4N_3$ C 65,8 — H 6,5 — O 16,7 — N 11,0 — M. G. 383.
- 1) Verbindung (aus Disazobenzolsantonsäure). (2HCl, SnCl₄) (*B.* 36, 1395 *C.* 1903 [1] 1360).
- $C_{21}H_{25}O_4N_5$ C 61,3 — H 6,1 — O 15,6 — N 17,0 — M. G. 411.
- 1) Phenylamid d. α -[α -Benzoylamidoacetylamidopropionyl]amido-äthylamidoameisensäure. *Sm.* 226° (*J. pr.* [2] 70, 127 *C.* 1904 [2] 1037).
- $C_{21}H_{25}O_6N$ C 65,1 — H 6,5 — O 24,8 — N 3,6 — M. G. 387.
- 1) Papaveramin. *Sm.* 128—129°. (2HCl, PtCl₄ + 3H₂O) (*J. pr.* [2] 68, 204 *C.* 1903 [2] 839).
- $C_{21}H_{25}O_6N_3$ C 60,7 — H 6,0 — O 23,1 — N 10,1 — M. G. 415.
- 1) Nitroderivat d. Propan- $\alpha\beta$ -Dicarbonsäuredi[4-Aethoxyphenylamid]. *Sm.* 195° (*G.* 34 [2] 271 *C.* 1904 [2] 1454).
- $C_{21}H_{25}N_2Br$ 1) 2,4-Dimethylbromphenylat d. 2-[2,4-Dimethylphenyl]amido-1,2-Dihydropyridin. *Sm.* 153° (*J. pr.* [2] 69, 125 *C.* 1904 [1] 815).
- $C_{21}H_{26}ON_2$ 6) α -[1-Naphtyl]- β -Bornylharnstoff (*Soc.* 85, 1191 *C.* 1904 [2] 1125).
- $C_{21}H_{26}O_2N_4$ 3) Aethylester d. $\beta\epsilon$ -Di[Phenylhydrazon]hexan- γ -Carbonsäure. Zers. bei 130° (*B.* 37, 2192 *C.* 1904 [2] 240).

- $C_{21}H_{26}O_4N_2$ 6) Di[4-Aethoxyphenylamid] d. Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 234 bis 235° (*G.* 34 [2] 269 *C.* 1904 [2] 1454).
 $C_{21}H_{26}O_4N_4$ C 63,3 — H 6,5 — O 16,1 — N 14,1 — M. G. 398.
 1) Pyramidonorthoform. Sm. 76° (*A.* 325, 320 *C.* 1903 [1] 769).
 2) isom. Pyramidonorthoform. Sm. 65—66° (*A.* 325, 320 *C.* 1903 [1] 769).
 $C_{21}H_{26}O_5N_4$ C 60,9 — H 6,3 — O 19,3 — N 13,5 — M. G. 414.
 1) Diäthylester d. Diphenylcarbaziddiessigsäure. Sm. 114—115° (*B.* 36, 3889 *C.* 1904 [1] 28).
 $C_{21}H_{26}O_5S_2$ 3) α -Keto- $\gamma\epsilon$ -Diäthylsulfon- $\alpha\epsilon$ -Diphenylpentan. Fl. (*B.* 37, 510 *C.* 1904 [1] 884).
 $C_{21}H_{27}O_5N$ C 77,5 — H 8,3 — O 9,8 — N 4,3 — M. G. 325.
 1) Phenylamidoformiat d. 5-[α -Oxyäthyl]-1,2,4-Triäthylbenzol. Sm. 75—76° (*B.* 36, 1635 *C.* 1903 [2] 26).
 $C_{21}H_{27}O_4N$ *1) d-Laudanosin (*Soc.* 83, 626 *C.* 1903 [1] 591).
 $C_{21}H_{27}O_4N$ C 67,6 — H 7,2 — O 21,4 — N 3,8 — M. G. 373.
 1) Aethyl-laurotetanin. Sm. 127—130°. *HJ.* (*A.* 236, 615). — *III, 661.
 $C_{21}H_{27}O_6N_3$ C 56,1 — H 6,0 — O 28,5 — N 9,4 — M. G. 449.
 1) Trinitrocannabinol (*C.* 1903 [2] 199).
 $C_{21}H_{23}O_4N_2$ C 67,7 — H 7,5 — O 17,2 — N 7,5 — M. G. 372.
 1) Tetramethyläther d. 6,7-Dioxy-1-[6-Amido-3,4-Dioxybenzyl]-2-Methyl-1,2,3,4-Tetrahydroisochinolin (Amidotetrahydro-N-Methylpapaverin). Sm. 145° (*B.* 37, 1940 *C.* 1904 [2] 130).
 $C_{21}H_{28}O_4N_4$ C 63,0 — H 7,0 — O 16,0 — N 14,0 — M. G. 400.
 1) 2,2'-Dinitro-4,4'-Di[Diäthylamido]diphenylmethan. Sm. 121—121,5° (*D.R.P.* 139989 *C.* 1903 [1] 798).
 $C_{21}H_{28}O_5N_4$ C 54,3 — H 6,0 — O 27,6 — N 12,1 — M. G. 464.
 1) Diäthylester d. Hippurylasparagylidiamidoessigsäure. Sm. 195° (*J. pr.* [2] 70, 193 *C.* 1904 [2] 1398).
 $C_{21}H_{28}O_5N_6$ C 51,2 — H 5,7 — O 26,0 — N 17,1 — M. G. 492.
 1) Aethylester d. Benzoylpenta[Amidoacetyl]amidoessigsäure. Sm. 263° u. Zers. (258—263°) (*B.* 37, 1282 *C.* 1904 [1] 1335; *J. pr.* [2] 70, 100 *C.* 1904 [2] 1035).
 $C_{21}H_{30}ON_2$ *1) α -Oxy-4,4'-Di[Diäthylamido]triphenylmethan. (2HCl, ZnCl₂) (*B.* 37, 3061 *C.* 1904 [2] 990).
 $C_{21}H_{30}O_3N_2$ C 70,4 — H 8,4 — O 13,4 — N 7,8 — M. G. 358.
 1) Menthylester d. α -[4-Methylphenyl]azoacetyllessigsäure. Sm. 86 bis 87° (*Soc.* 83, 1121 *C.* 1903 [2] 23, 791).
 $C_{21}H_{31}O_2N$ *1) Menthylester d. β -Benzylamidopropen- α -Carbonsäure. Sm. 85—86° (*Soc.* 81, 1505 *C.* 1903 [1] 138).
 $C_{21}H_{31}O_{13}N_3$ C 47,3 — H 5,8 — O 39,0 — N 7,9 — M. G. 533.
 1) Säure (aus Guttapercha) oder C₃₄H₅₄O₂₁N₅ (*C.* 1903 [1] 83).
 $C_{21}H_{32}O_5Cl_2$ 1) Dianisalcyclopentanondihydrochlorid (*B.* 36, 1477 *C.* 1903 [1] 1348).
 $C_{21}H_{32}O_6N_{12}$ C 43,4 — H 5,5 — O 22,1 — N 29,0 — M. G. 580.
 1) Hydrazid d. Hippurylasparagylasparaginsäure. Sm. 176° u. Zers. (*J. pr.* [2] 70, 189 *C.* 1904 [2] 1397).
 $C_{21}H_{33}O_4N$ C 69,4 — H 9,1 — O 17,6 — N 3,9 — M. G. 363.
 1) 2,4,5-Trimethyläther d. γ -Oximido- α -[2,4,5-Trioxyphenyl]- α -Dodeken. Sm. 86° (*Ar.* 242, 103 *C.* 1904 [1] 1008).
 $C_{21}H_{33}O_4N_3$ C 64,5 — H 8,4 — O 16,4 — N 10,7 — M. G. 391.
 1) α -[α -(α -Amidoisocapronyl)amidoisocapronyl]amido- β -Phenylpropionsäure + 2H₂O. Sm. 225—227° (*B.* 37, 3311 *C.* 1904 [2] 1306).
 $C_{21}H_{34}O_6N_6$ *1) α -Pepsinfibrinpepton (Säure aus Fibrin) (*H.* 38, 258 *C.* 1903 [2] 210; *H.* 38, 291 *C.* 1903 [2] 211).
 $C_{21}H_{35}O_5Br_3$ 1) Tribromdihydrocyklogallipharsäure. Sm. 61° (*Ar.* 242, 265 *C.* 1904 [1] 1654).
 $C_{21}H_{36}ON_2$ C 75,9 — H 10,8 — O 4,8 — N 8,4 — M. G. 332.
 1) d- α - β -Dibornylharnstoff. Sm. noch nicht bei 290° (*Soc.* 85, 687 *C.* 1904 [2] 332).
 $C_{21}H_{38}O_{10}N_6$ *1) β -Pepsinfibrinpepton (Säure aus Fibrin) (*H.* 38, 258 *C.* 1903 [2] 210; *H.* 38, 296 *C.* 1903 [2] 211).
 $C_{21}H_{38}N_2S$ *1) s-Dibornylthioharnstoff. Sm. 227° (*C.* 1904 [1] 1605; *Soc.* 85, 1193 *C.* 1904 [2] 1125).
 $C_{21}H_{37}O_3N_2$ 1) Samandatrin. H₂SO₄ (*C.* 1904 [2] 130).

- $C_{21}H_{39}O_5N_9$ C 46,2 — H 7,2 — O 23,5 — N 23,1 — M. G. 545.
 1) Glutokyrin. $2 + 5H_2SO_4$ (C. 1903 [1] 1145; 1903 [2] 580; H. 43, 44 C. 1904 [2] 1660).
 $C_{21}H_{40}ON_2$ C 75,0 — H 11,9 — O 4,8 — N 8,3 — M. G. 336.
 1) 1- α - β -Dimenthylharnstoff. Sm. 258° (Soc. 85, 690 C. 1904 [2] 332).

— 21 IV —

- $C_{21}H_{13}O_6NS_2$ 1) α -Naphதாகريد-2,11-Disulfonsäure. Na_2 (B. 35, 4175 C. 1903 [1] 173).
 2) β -Naphதாகريد-3,10-Disulfonsäure. Ag_2 (B. 35, 4173 C. 1903 [1] 173).
 $C_{21}H_{14}O_2NBr$ 1) 2-Brom-4-[4-Methylphenyl]amido-1,3-Dioxy-9,10-Anthrachinon (D. R. P. 153517 C. 1904 [2] 752).
 $C_{21}H_{14}O_3NCl$ 1) Chlormethylamidofluoran. Sm. 168° (D. R. P. 139727 C. 1903 [1] 796).
 $C_{21}H_{14}O_5NBr$ 1) 2-Brom-4-[4-Methylphenyl]amido-1-Oxy-9,10-Anthrachinon (D. R. P. 127532 C. 1902 [1] 287). — *III, 301.
 $C_{21}H_{14}O_5N_2S$ 1) 6-Phenylazo-3-Phenyl-1,2-Benzpyron-6'-Sulfonsäure (B. 37, 4132 C. 1904 [2] 1736).
 $C_{21}H_{15}O_2N_2Br$ 1) 2-Brom-1-Amido-4-[4-Methylphenyl]amido-9,10-Anthrachinon (C. 1904 [2] 340).
 $C_{21}H_{15}O_4N_3Br_4$ 1) 2,6-Di[$\alpha\beta$ -Dibrom- β -4-Nitrophenyläthyl]pyridin. Sm. 252° (B. 36, 1688 C. 1903 [2] 47).
 $C_{21}H_{15}O_6NS$ 1) 4-[4-Methylphenyl]amido-1-Oxy-9,10-Anthrachinon-4'-oder-4³-Sulfonsäure (Alizarinirisol) (C. 1904 [1] 101).
 $C_{21}H_{15}N_3ClBr$ 1) Nitril d. β -[4-Bromphenyl]hydrazon- α -[4-Chlorphenyl]- β -Phenylpropionsäure. Sm. 144° (J. pr. [2] 67, 383 C. 1903 [1] 1356).
 $C_{21}H_{16}O_2NJ$ 1) Jodmethylat d. 5-Phenylakridin-5²-Carbonsäure + H_2O . Sm. 257—260° (B. 37, 1010 C. 1904 [1] 1277).
 $C_{21}H_{16}O_3NCl$ 1) γ -Chlor- α -Keto- γ -[3-Nitrophenyl]- $\alpha\beta$ -Diphenylpropan. Sm. 166—167° (Soc. 83, 1377 C. 1904 [1] 164, 450).
 $C_{21}H_{16}O_5N_2S$ 2) Verbindung (aus 1-Amidobenzthiazol u. Benzoesäureanhydrid). Sm. 156° (B. 36, 3136 C. 1903 [2] 1071).
 $C_{21}H_{16}N_3BrS$ 1) 1-Phenyl-5-[4-Bromphenyl]-4-Benzyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid? Sm. 218° (J. pr. [2] 67, 238 C. 1903 [1] 1263).
 $C_{21}H_{17}O_2NS$ 1) 3,4-Methylenäther d. 4'-[3,4-Dioxybenzyliden]amido-4-Methyldiphenylsulfid. Sm. 95° (J. pr. [2] 68, 273 C. 1903 [2] 993).
 $C_{21}H_{17}O_2N_2Cl$ 4) β -Phenylhydrazon- α -[4-Chlorphenyl]- β -Phenylpropionsäure. Sm. 130° (J. pr. [2] 67, 386 C. 1903 [1] 1357).
 $C_{21}H_{17}O_6N_3S$ 1) Laktam d. β -Dinitro- α -Oxytriphenylmethan-2-Sulfonsäure-äthylamid. Sm. 220—230° (B. 37, 3263 C. 1904 [2] 1031).
 $C_{21}H_{17}O_9NS_2$ 1) Verbindung (aus d. Suprarenintribenzolsulfonat) (M. 24, 281 C. 1903 [2] 302). — *III, 667.
 $C_{21}H_{18}O_5N_3Br$ 1) Äthyläther d. 3'-Brom-4'-[3-Nitrobenzyliden]amido-4-Oxydiphenylamin. Sm. 137—138° (B. 36, 3866 C. 1904 [1] 91).
 $C_{21}H_{18}O_6N_2S$ 1) 4-Oxazobenzol-3-[α -Phenylpropionsäure]-4'-Sulfonsäure (B. 37, 4134 C. 1904 [2] 1736).
 $C_{21}H_{18}N_3ClS$ 1) α -[2-Methylphenyl]amidothioformylimido- α -[4-Chlorphenyl]-amido- α -Phenylmethan. Sm. 143° (J. pr. [2] 67, 463 C. 1903 [1] 1422).
 $C_{21}H_{18}N_3JS$ 1) Methyläther d. 5-Jod-3-Merkapto-1,4,5-Triphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 330° (J. pr. [2] 67, 229 C. 1903 [1] 1262).
 $C_{21}H_{19}ONS$ 1) 4-[2-Oxybenzyliden]amido-3,4'-Dimethyldiphenylsulfid. HCl (J. pr. [2] 68, 288 C. 1903 [2] 995).
 2) Methyläther d. 4'-[4-Oxybenzyliden]amido-4-Methyldiphenylsulfid. Sm. 119° (J. pr. [2] 68, 272 C. 1903 [2] 993).
 3) 4-Benzoylamido-3,4'-Dimethyldiphenylsulfid. Sm. 133° (J. pr. [2] 68, 282 C. 1903 [2] 994).
 $C_{21}H_{19}ON_6S$ 1) 3-Methyläther d. 3-Merkapto-5-Oxy-1,4,5-Triphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 157° (J. pr. [2] 67, 231 C. 1903 [1] 1262).
 $C_{21}H_{19}O_2NS$ 1) Sultam d. α -Oxytriphenylmethan-2-Sulfonsäureäthylamid. Sm. 155—156° (B. 37, 3262 C. 1904 [2] 1031).

- $C_{21}H_{19}O_2N_2Br$ 1) 5-Aethyläther d. 3'-Brom-2-[2-Oxybenzyliden]amido-5-Oxydiphenylamin. Sm. 116° (B. 36, 3870 C. 1904 [1] 92).
- $C_{21}H_{19}O_3NS$ 1) 2-[4-Methylphenylsulfon]amido-4-Methyldiphenylketon. Sm. 123° (B. 35, 4276 C. 1903 [1] 333).
2) 2-[Methyl-4-Methylphenylsulfon]amidodiphenylketon. Sm. 124° (B. 35, 4276 C. 1903 [1] 332).
- $C_{21}H_{19}O_4NS$ 1) Methyläther d. 2-[4-Methylphenylsulfon]amido-4'-Oxydiphenylketon. Sm. 143° (B. 35, 4277 C. 1903 [1] 333).
- $C_{21}H_{19}O_6NBr_2$ 1) Acetat d. $\alpha\beta$ -Dibrom- γ -Keto- γ -[5-Diacetyl-amido-2-Oxyphenyl]- α -Phenylpropan. Sm. 170° (B. 37, 2827 C. 1904 [2] 704).
- $C_{21}H_{20}ON_2S$ 2) 4-Methylphenyläther d. α -Phenyl- β -[4-Merkapto-2-Methylphenyl]harnstoff. Sm. 187° (J. pr. [2] 68, 286 C. 1903 [2] 995).
3) 4-Methylphenyläther d. α -Phenyl- β -[4-Merkapto-3-Methylphenyl]harnstoff. Sm. 227° (J. pr. [2] 68, 292 C. 1903 [2] 995).
- $C_{21}H_{20}O_2N_2Br_2$ 2) isom. Dibromstrychnin. Sm. 130—131°. (HBr, Br) (Bl. [3] 31, 388 C. 1904 [1] 1280).
- $C_{21}H_{23}O_3NP$ 1) Di[Phenylamid] d. 1,2,3,4-Tetrahydro-1-Chinolyphosphinsäure. Sm. 176° (A. 326, 188 C. 1903 [1] 820).
- $C_{21}H_{20}O_5N_2S$ 1) α -[2-Naphtylsulfonamidoacetyl]amido- β -[4-Oxyphenyl]propionensäure. Sm. 166—166,5° (B. 36, 2599 C. 1903 [2] 619).
- $C_{21}H_{21}O_2N_2Br$ 3) isom. Bromstrychnin. Sm. 199°. (HBr, Br) (Bl. [3] 31, 386 C. 1904 [1] 1279).
- $C_{21}H_{21}O_2N_2J$ 1) Jodstrychnin. Sm. 188°. (HJ, J) (Bl. [3] 31, 389 C. 1904 [1] 1280).
- $C_{21}H_{21}O_2N_2S$ 1) Sultam d. P-Diamido- α -Oxytriphenylmethan-2-Sulfonsäureäthylamid. Sm. noch nicht bei 250° (B. 37, 3263 C. 1904 [2] 1031).
- $C_{21}H_{21}O_2N_3S_2$ 1) Methyläther d. α -[β -Phenylsulfon- α -Benzylhydrazido]- α -Phenylimido- α -Merkaptoethan. Sm. 126° (B. 37, 2329 C. 1904 [2] 313).
- $C_{21}H_{21}O_3NS$ 1) Aethylamid d. α -Oxytriphenylmethan-2-Sulfonsäure. Sm. 184 bis 185° (B. 37, 390 C. 1904 [1] 669; B. 37, 3262 C. 1904 [2] 1031).
- $C_{21}H_{21}N_6S_3P$ *1) Phosphortri[Phenylthioharnstoff]. Sm. 67—69° (Soc. 85, 355 C. 1904 [1] 1406).
- $C_{21}H_{22}O_2N_3J_2$ 1) Dijodidihydrostrychnin (Bl. [3] 31, 390 C. 1904 [1] 1280).
- $C_{21}H_{23}O_3Br_2S$ 1) $\alpha\beta$ -Dibrom- ϵ -[4-Methylphenyl]sulfon- γ -Keto- $\alpha\epsilon$ -Diphenylpentan. Sm. 204° u. Zers. — *III, 175.
- $C_{21}H_{22}O_4NBr$ 1) Tetramethyläther d. 6,7-Dioxy-2-Methyl-1-[6-Brom-3,4-Dioxybenzyliden]-1,2-Dihydroisochinolin (N-Methylbromisopapaverin). Sm. 122° (B. 37, 3813 C. 1904 [2] 1575).
- $C_{21}H_{22}O_4N_8J$ 1) Jodmethylat d. Diazopapaverin + H_2O . Sm. 198° u. Zers. (wasserfrei) (B. 37, 1935 C. 1904 [2] 129).
- $C_{21}H_{22}O_5NJ$ *1) Jodmethylat d. Papaveraldin + 2 H_2O (M. 24, 716 C. 1904 [1] 218).
- $C_{21}H_{23}O_6N_2Cl$ 1) Chlormethylat d. 6,7-Dioxy-1-[6-Nitro-3,4-Dioxybenzyl]isochinolintetramethyläther (Ch. d. Nitropapaverin). Sm. 212° (B. 37, 1932 C. 1904 [2] 129).
- $C_{21}H_{23}O_6N_2Br$ 1) Brommethylat d. 6,7-Dioxy-1-[6-Nitro-3,4-Dioxybenzyl]isochinolintetramethyläther (Br. d. Nitropapaverin). Sm. 227° u. Zers. (B. 37, 1931 C. 1904 [2] 128).
- $C_{21}H_{23}O_6N_2J$ 1) Jodmethylat d. 6,7-Dioxy-1-[6-Nitro-3,4-Dioxybenzyl]isochinolintetramethyläther (J. d. Nitropapaverin). Sm. 225° (B. 37, 1931 C. 1904 [2] 128).
- $C_{21}H_{24}ON_3P$ *1) Tri[2-Methylphenylamid] d. Phosphorsäure. Sm. 236° (A. 326, 250 Anm. C. 1903 [1] 868).
4) Tri[Methylphenylamid] d. Phosphorsäure. Sm. 162° (A. 326, 256 C. 1903 [1] 869).
5) Tri[Benzylamid] d. Phosphorsäure. Sm. 98° (A. 326, 178 C. 1903 [1] 819).
6) Methylphenylamid-Di[4-Methylphenylamid] d. Phosphorsäure. Sm. 232° (A. 326, 255 C. 1903 [1] 869).
- $C_{21}H_{24}O_3NBr$ 1) Brombenzoylmethylat d. 1,2,3,4-Tetrahydro-2-Isochinolyl-essigsäureäthylester. Zers. 89—90° (B. 36, 1160 C. 1903 [1] 1186).
- $C_{21}H_{24}O_3NJ$ 2) Monoacetat d. Methylapomorphinjodmethylat. Sm. 241—242° u. Zers. (B. 35, 4389 C. 1903 [1] 339).
- $C_{21}H_{24}O_5N_2Br_2$ 1) Acetat d. 3,6-Dibrom-6'-Dimethylamido-3'-Acetylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 138—139° (A. 334, 315 C. 1904 [2] 987).

- $C_{21}H_{24}O_7N_2S$ 1) Sulfanilsäureazodesmotroposantonin. Sm. 269° (B. 36, 1392 C. 1903 [1] 1360).
- $C_{21}H_{24}N_3SP$ 3) Tri[Benzylamid] d. Thiophosphorsäure. Sm. 127° (A. 326, 209 C. 1903 [1] 822).
- $C_{21}H_{25}O_2NBr_2$ 1) Acetat d. 3,6-Dibrom-4'-Diäthylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 139—140° (A. 334, 317 C. 1904 [2] 987).
- $C_{21}H_{25}O_2N_2Br$ 1) 4-Aethoxylbromphenylat d. 2-[4-Aethoxylphenyl]amido-1,2-Dihydropyridin. Sm. 143° (J. pr. [2] 69, 130 C. 1904 [1] 815).
- $C_{21}H_{25}O_4N_2Cl$ 1) Chlormethylat d. 6,7-Dioxy-1-[6-Amido-3,4-Dioxybenzyl]isochinolin. Sm. 147°. HCl (B. 37, 1940 C. 1904 [2] 130).
- $C_{21}H_{25}O_4N_2Br$ 1) Bromderivat d. Propan- $\alpha\beta$ -Dicarbonsäuredi[4-Aethoxylphenylamid]. Sm. 74° (G. 34 [2] 271 C. 1904 [2] 1454).
- $C_{21}H_{26}O_2NJ$ 1) Jodmethylat d. Dimethylapomorphimethin. Sm. 242—244° (B. 35, 4390 C. 1903 [1] 339).
- $C_{21}H_{26}O_2N_6J$ 1) Jodmethylat d. Isonitrosomethyleinchotoxin. Sm. 235° (B. 33, 3225). — *III, 637.
- $C_{21}H_{29}O_3N_3Br$ 1) Menthylester d. α -Brom- α -[4-Methylphenyl]azoacetessigsäure. Sm. 155—156° (Soc. 83, 1128 C. 1903 [2] 24, 791).
- $C_{21}H_{30}O_7NJ$ 1) Jodmethylat d. Anhydromethylecotarninmalonsäurediäthylester. Sm. 201° (B. 37, 2741 C. 1904 [2] 544).
- $C_{21}H_{31}O_4N_2Br$ 1) α -[α -(α -Bromisocapronyl)amidoisocapronyl]amido- β -Phenylpropionsäure. Sm. 163—165° (B. 37, 3311 C. 1904 [2] 1306).

— 21 V —

- $C_{21}H_{15}O_5N_2BrS$ 1) 2-Brom-1-Amido-4-[4-Methylphenyl]amido-9,10-Anthrachinon-4³[oder 4²]-Sulfonsäure (Alizarinreinblau) (C. 1904 [2] 340).
- $C_{21}H_{21}ON_6S_3P$ *1) Phosphoryltri[Phenylthioharnstoff] (Soc. 85, 365 C. 1904 [1] 1407).
- $C_{21}H_{21}O_3NBrP$ 1) 2-Brom-4-Methylphenylmonamid d. Phosphorsäuredi[4-Methylphenylester]. Sm. 154° (A. 326, 239 C. 1903 [1] 868).
- $C_{21}H_{23}O_4NBrJ$ 1) Jodmethylat d. 6,7-Dioxy-1-[6-Brom-3,4-Dioxybenzyl]isochinolintetramethyläther. Zers. bei 225° (B. 37, 3813 C. 1904 [2] 1575).

C₂₂-Gruppe.

- $C_{22}H_{22}$ *4) Tri[4-Methylphenyl]methan. Sm. 53—54°; Sd. oberh. 400° (B. 37, 3155 C. 1904 [2] 1048).
- $C_{22}H_{42}$ C 86,3 — H 13,7 — M. G. 306.
- 1) Kohlenwasserstoff (aus Petroleum) (C. 1904 [1] 409).

— 22 II —

- $C_{22}H_{12}N_4$ 2) Chinoxalophenanthrazin. Sm. 200°. HCl (B. 36, 4042 C. 1904 [1] 183; B. 36, 4053 C. 1904 [1] 185).
- 3) Naphtochinoxalonaphtazin. Zers. bei 300° (B. 36, 4046 C. 1904 [1] 184; B. 36, 4053 C. 1904 [1] 185).
- $C_{22}H_{14}O_6$ 3) 4-Benzoat d. 3,4-Dioxy-9,10-Phenanthrenchinon-3-Methyläther. Sm. 228° (B. 31, 3201). — *III, 318.
- $C_{22}H_{14}O_8$ *4) Diacetat d. 6,11-Dioxy-5,12-Naphtacenchinon. Sm. 235° (B. 36, 722 C. 1903 [1] 774).
- $C_{22}H_{14}O_9$ 2) Triacetat d. Oxystyrogallol. Sm. 250° (i. V.) (C. 1899 [2] 967). — *II, 1207.
- 3) Triacetat d. Trioxybrasanchinon. Sm. 281° (B. 36, 2200 C. 1903 [2] 381).
- $C_{22}H_{14}N_4$ 3) 2,3-Diphenyl-1,4,5,10-Naphttetrazin (Diphenylpyrazinophenazin). Sm. 235° (B. 36, 4040 C. 1904 [1] 182).
- 4) Dihydrochinoxalophenanthrazin. Sm. oberh. 300° (B. 36, 4043 C. 1904 [1] 183).
- 5) Naphtbenzofluorindin. 2HCl (B. 37, 3890 C. 1904 [2] 1654).
- 6) Dinaphtofluoavin. Zers. bei 300° (B. 36, 4045 C. 1904 [1] 183).

- $C_{22}H_{15}N_3$ 8) Nitril d. α -[1-Naphtyl]imido- α -[1-Naphtyl]amidoessigsäure. Sm. 150° (165°) (D.R.P. 152019 C. 1904 [2] 71; D.R.P. 153418 C. 1904 [2] 679).
- $C_{22}H_{10}O_8$ 9) Nitril d. α -[2-Naphtyl]imido- α -[2-Naphtyl]amidoessigsäure. Sm. 166° (D.R.P. 152019 C. 1904 [2] 71).
- 14) Anhydrid d. $\alpha\beta$ -Diphenyl- $\alpha\gamma\epsilon\eta$ -Oktatetraën- $\delta\epsilon$ -Dicarbonsäure. Sm. 215° u. Zers. (A. 331, 167 C. 1904 [1] 1211).
- 15) Methylester d. 2-Benzoylfluoren-2'-Carbonsäure. Sm. 126—128° (B. 36, 4037 C. 1904 [1] 168).
- 16) Pseudomethylester d. 2-Benzoylfluoren-2'-Carbonsäure. Sm. 200 bis 202° (B. 36, 4038 C. 1904 [1] 168).
- 17) Benzoat d. α -Oxy- γ -Keto- $\alpha\gamma$ -Diphenylpropen. Sm. 108—109° (B. 36, 3679 C. 1903 [2] 1443).
- $C_{22}H_{16}O_4$ 10) Diacetat d. 1,2-Dioxychrysen. Sm. 225—228° (D.R.P. 151981 C. 1904 [2] 167).
- $C_{22}H_{16}O_5$ 13) Dimethyläther d. Hydrochinonphtalein. Sm. 200° (B. 36, 2959 C. 1903 [2] 1006).
- $C_{22}H_{18}O_6$ C 70,2 — H 4,2 — O 25,5 — M. G. 376.
- 1) 2,5-Dibenzoxybenzol-1-Carbonsäure. Sm. 179—180° (*Journ. of Physiology* 27, 92). — *II, 1031.
- $C_{22}H_{16}O_7$ 6) Dimethyläther d. Phloroglucinphtalein (B. 36, 1074 C. 1903 [1] 1181).
- $C_{22}H_{16}O_{10}$ 7) Tetraacetat d. 1, 6, P, P-Tetraoxy-9, 10-Anthrachinon. Sm. 195° (B. 36, 2938 C. 1903 [2] 886).
- 8) Tetraacetat d. isom. 1, 6, P, P-Tetraoxy-9, 10-Anthrachinon. Sm. 238—240° (B. 36, 2941 C. 1903 [2] 886).
- $C_{22}H_{16}N_2$ 10) Di[1-Naphtyliden]hydrazin. Sm. 152° (*Bl.* [3] 17, 303). — *III, 48.
- $C_{22}H_{16}N_4$ *2) 3, 6-Di[2-Naphtyl]-1, 2-Dihydro-1, 2, 4, 5-Tetrazin. Sm. 246° (B. 35, 3933 C. 1903 [1] 38).
- 3) Verbindung (aus 4,5-Diketo-1,3-Diphenyl-4,5-Dihydropyrazol) (B. 36, 1136 C. 1903 [1] 1254).
- $C_{22}H_{17}N_5$ 5) Chinolylformazyl. Sm. 185° u. Zers. (B. 37, 3014 C. 1904 [2] 1409).
- 6) Verbindung (aus d. Verb. $C_{22}H_{22}N_6$). 2HCl (B. 37, 3891 C. 1904 [2] 1654).
- $C_{21}H_{18}O$ *4) Verbindung (aus α -Chlor- γ -Keto- $\alpha\beta\delta$ -Triphenylbutan). Sm. 162° (M. 24, 725 C. 1904 [1] 167).
- 5) γ -Keto- $\beta\gamma$ -Diphenyl- α -[4-Methylphenyl]propen. Sm. 95° (B. 35, 3966 C. 1903 [1] 30).
- 6) isom. γ -Keto- $\beta\gamma$ -Diphenyl- α -[4-Methylphenyl]propen. Sm. 78° (B. 35, 3966 C. 1903 [1] 30).
- $C_{22}H_{18}O_2$ 16) Methyläther d. γ -Keto- $\beta\gamma$ -Diphenyl- α -[4-Oxyphenyl]propen. Sm. 113° (B. 35, 3971 C. 1903 [1] 31).
- 17) Methyläther d. isom. γ -Keto- $\beta\gamma$ -Diphenyl- α -[4-Oxyphenyl]propen. Sm. 85° (B. 35, 3972 C. 1903 [1] 31).
- 18) Lakton d. 6-Oxy-3, 4-Dimethyltriphenylessigsäure. Sm. 178° (B. 37, 665 C. 1904 [1] 952).
- 19) Lakton d. 2-Oxy-3, 5-Dimethyltriphenylessigsäure. Sm. 170° (B. 37, 666 C. 1904 [1] 952).
- $C_{22}H_{18}O_3$ 8) Äthylester d. 3-Benzoylacenaphten-3'-Carbonsäure. Sm. 111° (Pikrat A. 327, 101 C. 1903 [1] 1228).
- 9) Verbindung (aus Cinnamylakrylsäure). Sm. 152° (B. 36, 4324 Anm. C. 1904 [1] 453).
- $C_{22}H_{18}O_4$ *5) Dibenzylester d. Benzol-1,2-Dicarbonsäure. Sm. 43°; Sd. 275—278°₁₂ (B. 35, 4092 C. 1903 [1] 75; B. 36, 160 C. 1903 [1] 502).
- 12) $\alpha\beta$ -Diphenyl- $\alpha\gamma\epsilon\eta$ -Oktatetraën- $\delta\epsilon$ -Dicarbonsäure. Ca + 4H₂O, Ba + 4H₂O, Ag₂ (A. 331, 168 C. 1904 [1] 1211).
- 13) Dibenzoat d. 3, 5-Dioxy-1, 2-Dimethylbenzol. Sm. 100—102° (A. 329, 306 C. 1904 [1] 793).
- $C_{22}H_{18}O_5$ 9) Äthylester d. Hydrochinonphtalincarbonsäure. Sm. 188—189° (B. 36, 2958 C. 1903 [2] 1006).
- $C_{22}H_{18}O_6$ 12) Verbindung (aus Ononetin). Sm. 190° (M. 24, 140 C. 1903 [1] 1033).
- $C_{22}H_{18}O_7$ *3) Triacetat d. 7-Oxy-4-Methylen-2-[2,4-Dioxyphenyl]-1,4-Benzopyran (Tr. d. Resacetefin). Sm. 239—240° (B. 36, 734 C. 1903 [1] 840; B. 37, 364 C. 1904 [1] 671).
- *4) Triacetat d. Verb. $C_{16}H_{14}O_4$. Sm. 190—194° u. Zers. (M. 25, 885 C. 1904 [2] 1313).

- $C_{22}H_{18}O_9$ 4) Cocafavetin + $3H_2O$. Sm. 230° (*J. pr.* [2] 66, 415 *C.* 1903 [1] 528).
 $C_{22}H_{16}N$ 5) α -Phenylimido- $\alpha\gamma$ -Diphenyl- β -Buten. Sm. 229° (*M.* 25, 424 *C.* 1904 [2] 336).
 $C_{22}H_{16}N_3$ 6) 3,5-Diphenyl-1-[2,4-Dimethylphenyl]-1,2,4-Triazol. Sm. 85° (*J. pr.* [2] 67, 490 *C.* 1903 [2] 250).
 $C_{22}H_{20}O$ 4) 6-Dimethylamido-2,3-Diphenyl-1,4-Benzdiazin. Sm. 193—194° (*B.* 37, 2616 *C.* 1904 [2] 517).
 $C_{22}H_{20}O$ 2) α -Keto- $\alpha\gamma\gamma$ -Triphenylbutan. Sm. 103° (*Am.* 31, 658 *C.* 1904 [2] 447).
 $C_{22}H_{20}O_2$ 3) γ -Keto- $\alpha\gamma\gamma$ -Triphenyl- β -Methylpropan. Sm. 105° (*Am.* 31, 657 *C.* 1904 [2] 446).
 $C_{22}H_{20}O_2$ 11) Acetat d. 4-Oxy-3-Methyltriphenylmethan. Sm. 63—64° (*B.* 36, 3561 *C.* 1903 [2] 1374).
 $C_{22}H_{20}O_3$ 5) 4-Acetat d. $\alpha,4$ -Dioxy-3-Methyltriphenylmethan. Sm. 127—128° (*B.* 36, 3559 *C.* 1903 [2] 1374).
 $C_{22}H_{20}O_3$ 6) 4-Oxy-2,5-Dimethyltriphenyllessigsäure. Zers. bei 236—237° (*B.* 37, 666 *C.* 1904 [1] 952).
 $C_{22}H_{20}O_4$ 7) Anhydrid d. $\alpha\beta$ -Diphenyl- $\beta\zeta$ -Oktadien- $\delta\epsilon$ -Dicarbonsäure. Sm. 164° (*A.* 331, 171 *C.* 1904 [1] 1212).
 $C_{22}H_{20}O_4$ 10) Diphenoxymethylenäther d. 3,4-Dioxy-1-Propylbenzol. Sd. 256 bis 258°_{17} (*C. r.* 138, 424 *C.* 1904 [1] 798).
 $C_{22}H_{20}O_7$ 11) 3,3'-Dioxytriphenyllessigdimethyläthersäure. Sm. 246° (*B.* 37, 4037 *C.* 1904 [2] 1600).
 $C_{22}H_{20}O_7$ *3) Acetat d. β -Dehydrohämatoxylintetramethyläther (A. d. Pentaoxy-rufindentetramethyläther). Sm. 193—196° (*B.* 36, 2203 *C.* 1903 [2] 382; *B.* 37, 633 *C.* 1904 [1] 955).
 $C_{22}H_{20}O_7$ 6) Äthylester d. 4,7-Diacetoxyl-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Fl. (*B.* 36, 1952 *C.* 1903 [2] 296).
 $C_{22}H_{20}O_7$ 7) Acetat d. α -Dehydrohämatoxylintetramethyläther. Sm. 165—171° (*B.* 37, 633 *C.* 1904 [1] 955).
 $C_{22}H_{20}O_7$ 8) α -Acetat d. Pentaoxybrasantetramethyläther. Sm. 194° (*B.* 36, 3714 *C.* 1904 [1] 39).
 $C_{22}H_{20}O_7$ 9) β -Acetat d. Pentaoxybrasantetramethyläther. Sm. 196° (*B.* 36, 2204 *C.* 1903 [2] 382; *B.* 36, 3714 *C.* 1904 [1] 39).
 $C_{22}H_{20}O_{10}$ 4) Diacetat d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinontetramethyläther. Sm. 262° u. Zers. (*D.R.P.* 151724 *C.* 1904 [1] 1586; *C.* 1904 [2] 709).
 $C_{22}H_{20}N_2$ 12) γ -Phenylhydrazon- $\alpha\gamma$ -Diphenyl- β -Methylpropen. Sm. 131° (*Am.* 31, 656 *C.* 1904 [2] 446).
 $C_{22}H_{20}N_6$ 3) Tri[Benzylidenamido]guanidin. Sm. 196° . HCl (*B.* 37, 3548 *C.* 1904 [2] 1379).
 $C_{22}H_{21}N$ C 88,3 — H 7,0 — N 4,7 — M. G. 299.
 $C_{22}H_{21}Cl$ 1) 5-Methyl-2,4-Diphenyl-5,6,7,8-Tetrahydrochinolin. Sm. 112—113°.
 $C_{22}H_{21}Cl$ HCl, (2HCl, PtCl₆), Pikrat (*B.* 35, 3980 *C.* 1903 [1] 37).
 $C_{22}H_{21}Cl$ *1) α -Chlortri[4-Methylphenyl]methan. Sm. 173° (181°). + AlCl₃ (*B.* 37, 1627 *C.* 1904 [1] 1648; *B.* 37, 3156 *C.* 1904 [2] 1048).
 $C_{22}H_{21}Br$ 1) α -Bromtri[4-Methylphenyl]methan. Sm. 161—163° (*B.* 37, 3156 *C.* 1904 [2] 1048).
 $C_{22}H_{21}J$ 1) α -Jodtri[4-Methylphenyl]methan. + J₂ (*B.* 37, 3157 *C.* 1904 [2] 1048).
 $C_{22}H_{22}O$ *3) α -Oxytri[4-Methylphenyl]methan. Sm. 123—124° (94° ; $96,5^\circ$). + C₆H₅O₂ (Sm. 87°) (*B.* 36, 1589 *C.* 1903 [2] 111; *B.* 37, 1630 *C.* 1904 [1] 1648; *B.* 37, 3153 *C.* 1904 [2] 1047).
 $C_{22}H_{22}O$ 4) α -Oxytribenzylmethan. Sm. 108—111° (114°) (*B.* 36, 1589 *C.* 1903 [2] 111; *B.* 36, 3089 *C.* 1903 [2] 1004; *B.* 36, 3237 *C.* 1903 [2] 950; *B.* 37, 1456 *C.* 1904 [1] 1353).
 $C_{22}H_{22}O$ 5) Äthyläther d. 4-Oxy-3-Methyltriphenylmethan. Sm. 75° (*B.* 36, 3562 *C.* 1903 [2] 1374).
 $C_{22}H_{22}O_2$ C 83,0 — H 6,9 — O 10,1 — M. G. 318.
 $C_{22}H_{22}O_2$ 1) Dimethyläther d. $\alpha,4$ -Dioxy-3-Methyltriphenylmethan. Sm. 91—92° (*B.* 36, 3560 *C.* 1903 [2] 1374).
 $C_{22}H_{22}O_2$ 2) α -Äthyläther d. $\alpha,4$ -Dioxy-3-Methyltriphenylmethan. Sm. 150 bis 151° (*B.* 36, 3565 *C.* 1903 [2] 1375).
 $C_{22}H_{22}O_4$ 7) $\alpha\beta$ -Diphenyl- $\beta\zeta$ -Oktadien- $\delta\epsilon$ -Dicarbonsäure. Sm. 182° . Ba, Ag₂ (*A.* 331, 170 *C.* 1904 [1] 1211).

- $C_{22}H_{22}O_4$ 8) Diäthylester d. $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Sm. 110,5° (*B.* 37, 2244 *C.* 1904 [2] 328).
- $C_{22}H_{22}O_5$ 9) Diacetat d. o-Dioxyreten. Sm. 171° (D.R.P. 151981 *C.* 1904 [2] 167).
- $C_{22}H_{22}O_7$ 5) 7-Acetat d. 7-Oxy-4-Methylen-2-[2,4-Dioxyphenyl]-1,4-Benzpyran-2',2'-Diäthyläther. Sm. 228—242° (*B.* 37, 361 *C.* 1904 [1] 671).
- $C_{22}H_{22}O_8$ 2) Verbindung (aus 4-Nitroso-1-Dimethylamidobenzol u. Benzoylessigsäureäthylester). Sm. 91,5° (*B.* 36, 3235 *C.* 1903 [2] 941).
- $C_{22}H_{22}O_8$ 14) Tetraacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 172—173° (*A.* 335, 190 *C.* 1904 [2] 1131).
- $C_{22}H_{22}N_3$ 15) Tetraacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 124 bis 125° (*A.* 335, 190 *C.* 1904 [2] 1131).
- $C_{22}H_{22}N_3$ 10) α -Phenylhydrazon- $\alpha\gamma$ -Diphenylbutan. Sm. 78—79° (*A.* 330, 233 *C.* 1904 [1] 945).
- $C_{22}H_{22}N_8$ 11) α -[4-Aethylbenzyliden]- β -Phenyl- β -Benzylhydrazin. Sm. 104° (*C. r.* 137, 717 *C.* 1903 [2] 1433).
- $C_{22}H_{22}N_8$ 4) 2,4,2'-Triamido-5-[1-Amido-2-Naphtyl]amidodiphenylamin. 4 HCl (*B.* 37, 3891 *C.* 1904 [2] 1654).
- $C_{22}H_{22}N$ 3) α -Amidotri[4-Methylphenyl]methan. Sm. 97° (*B.* 37, 3158 *C.* 1904 [2] 1048).
- $C_{22}H_{24}O_4$ 13) Diacetat d. $\alpha\beta$ -Di[4-Oxy-2,5-Dimethylphenyl]äthen. Sm. 185 bis 186° (*B.* 36, 1893 *C.* 1903 [2] 292).
- $C_{22}H_{24}O_5$ *C* 71,7 — H 6,5 — O 21,7 — M. G. 368.
- $C_{22}H_{24}O_6$ 1) 7-Acetat d. 7-Oxy-4-Methyl-2-[2,4-Dioxyphenyl]-1,4-Benzpyran-2',2'-Diäthyläther. Sm. 118° (*B.* 37, 362 *C.* 1904 [1] 671).
- $C_{22}H_{24}O_6$ 7) bism. o-Cumaräthyläthersäure. Sm. 273—274° (*B.* 37, 1385 *C.* 1904 [1] 1344).
- $C_{22}H_{24}O_{12}$ *C* 55,0 — H 5,0 — O 40,0 — M. G. 480.
- $C_{22}H_{24}N_2$ 1) Carminsäure. K (*Soc.* 83, 139 *C.* 1903 [1] 90, 466).
- $C_{22}H_{24}N_2$ 8) Verbindung (aus 2-Methylindol u. Isobuttersäurealdehyd). Sm. 207° (*B.* 36, 4327 *C.* 1904 [1] 462).
- $C_{22}H_{24}N_4$ 3) β -[6-Phenylazo-4-Phenylhydrazon-5-Methyl-1,2,3,4-Tetrahydrophenyl-2]propen. Sm. 147° (*A.* 330, 270 *C.* 1904 [1] 948).
- $C_{22}H_{24}N_4$ 4) Verbindung (aus C-Acetyldimethylhydroresorcin). Sm. 190° (*B.* 37, 3381 *C.* 1904 [2] 1219).
- $C_{22}H_{26}O_4$ 10) Dimethyläther d. $\beta\gamma$ -Diketo- $\delta\delta$ -Di[4-Oxyphenyl]oktan. Sm. 151 bis 152° (*A.* 330, 236 *C.* 1904 [1] 945).
- $C_{22}H_{26}O_7$ *2) Limonin. Sm. 275° (*Ar.* 240, 661 *C.* 1903 [1] 406).
- $C_{22}H_{26}O_8$ *3) Divaricatsäure (*A.* 336, 55 *C.* 1904 [2] 1325).
- $C_{22}H_{26}O_8$ *C* 63,2 — H 6,2 — O 30,6 — M. G. 418.
- $C_{22}H_{26}O_8$ 1) Dibenzylidenverbindung d. Oktit (aus Rosaceen). Sm. 230° (*C. r.* 127, 761). — *III, 6.
- $C_{22}H_{28}O_8$ 4) Diacetoxy- α -Dicamphylsäure. Sm. 174—175° (*Soc.* 83, 865 *C.* 1903 [2] 573).
- $C_{22}H_{30}O_2$ 4) Benzoat d. Gurjuresinol. Sm. 106—107° (*Ar.* 241, 389 *C.* 1903 [2] 724).
- $C_{22}H_{34}O_2$ 5) Acetat d. Verbindung $C_{20}H_{32}O$. Sm. 72—73° (*C.* 1904 [1] 1265).
- $C_{22}H_{34}O_3$ 5) α -Oxy- α -Dicamphoryläthan (Methyldicamphorylcarbinol). Sm. 148 bis 149° (*B.* 36, 2635 *C.* 1903 [2] 626).
- $C_{22}H_{36}O$ *2) Pentadekylphenylketon (*C.* 1904 [1] 1259).
- $C_{22}H_{36}O_2$ *5) Pentadekyl-4-Oxyphenylketon. Sm. 78° (*B.* 36, 3891 *C.* 1904 [1] 93).
- $C_{22}H_{36}O_2$ 7) Propionat d. Spongosterin. Sm. 135—136° (*H.* 41, 115 *C.* 1904 [1] 996).
- $C_{22}H_{36}O_{10}$ *C* 57,4 — H 7,8 — O 34,8 — M. G. 460.
- $C_{22}H_{36}O_{10}$ 1) Verbindung (aus Essigsäure u. Camphersäure) (*R.* 21, 353 *C.* 1903 [1] 150).
- $C_{22}H_{38}O_{18}$ *C* 44,9 — H 6,1 — O 49,0 — M. G. 588.
- $C_{22}H_{38}O_4$ 1) Leinsamenschleim (*B.* 36, 3198 *C.* 1903 [2] 1054).
- $C_{22}H_{38}O_4$ *2) Dimethylster d. Oxalsäure. Sm. 68° (*C.* 1903 [1] 162; *B.* 37, 1378 *C.* 1904 [1] 1441).
- $C_{22}H_{40}O_2$ *1) Behenolsäure. Sm. 57,5° (*G.* 34 [2] 53 *C.* 1904 [2] 693).
- $C_{22}H_{40}O_2$ 3) Isobornylester d. Laurinsäure. Sd. 202°₃₀ (*C. r.* 136, 239 *C.* 1903 [1] 584).
- $C_{22}H_{40}O_3$ *C* 75,0 — H 11,4 — O 13,6 — M. G. 352.
- $C_{22}H_{40}O_3$ 1) Isobutylester d. Ricinolsäure. Sd. 262°₉ (*B.* 36, 785 *C.* 1903 [1] 824).

- $C_{22}H_{40}O_1$ 3) Methylester d. Propionylricinolsäure. Sd. 260°₁₃ (B. 36, 787 C. 1903 [1] 824).
 4) Aethylester d. Acetylricinolsäure. Sd. 255–260°₁₃ (B. 36, 786 C. 1903 [1] 824).
- $C_{22}H_{42}O$ *1) μ -Keto- α -Methyl- α -Heneikosen. Sd. 214–216°₁₀ (B. 36, 2556 C. 1903 [2] 655).
- $C_{22}H_{42}O_3$ *3) Isoerukasäure. Sm. 54–56° (G. 34 [2] 50 C. 1904 [2] 693).
 $C_{22}H_{42}O_3$ *3) Phellonsäure. Sm. 96° (M. 25, 279 C. 1904 [1] 1572).
 6) Isophellonsäure. Sm. 73° (M. 25, 293 C. 1904 [1] 1573).
 7) Glycidsäure (aus Chloroxybehensäure). Sm. 64° (B. 36, 3605 C. 1903 [2] 1314).
 8) Glycidsäure (aus ?-Brom-?-Acetoxybehensäure). Sm. 69–71° (C. 1903 [1] 319).
 9) Glycidsäure (aus d. isom. Chloroxybehensäure). Sm. 71° (B. 36, 3605 C. 1903 [2] 1314).
- 10) Butylester d. Ricinolsäure. Sd. 275°₁₃ (B. 36, 784 C. 1903 [1] 824).
- $C_{22}H_{44}O_4$ *1) Dioxybehensäure. Sm. 99° (J. pr. [2] 67, 297 C. 1903 [1] 1404; J. pr. [2] 67, 364 C. 1903 [1] 1404; B. 36, 3605 C. 1903 [2] 1314).
 *2) isom. Dioxybehensäure (aus Brassidinsäure). Sm. 130–132° (132 bis 133°) (C. 1903 [1] 319; J. pr. [2] 67, 299 C. 1903 [1] 1404; J. pr. [2] 67, 365 C. 1903 [1] 1404; B. 36, 3605 C. 1903 [2] 1314).
 C 83,6 — H 7,6 — N 8,8 — M. G. 316.
- $C_{22}H_{44}N_2$ 1) Di[Undekyliden]hydrazin. Sm. 57° (Bl. [3] 29, 1206 C. 1904 [1] 355).
- $C_{22}H_{46}O$ *1) Aether d. β -Oxyundekan. Sd. 198–200°₁₀ (B. 36, 2549 C. 1903 [2] 654).
 2) Aether d. α -Oxyundekan (Bl. [3] 29, 1207 C. 1904 [1] 355).
 C 67,7 — H 11,8 — O 20,5 — M. G. 390.
- $C_{22}H_{46}O_5$ 1) Leiphämsäure. Sm. 114–115° (A. 327, 351 C. 1903 [2] 510).

— 22 III —

- $C_{22}H_{12}O_4N_2$ *1) 1,3-Di[1,2-Phtalylamido]benzol. Sm. 320° (A. 327, 44 C. 1903 [1] 1336).
 *2) 1,4-Di[1,2-Phtalylamido]benzol. Sm. 356° (A. 327, 45 C. 1903 [1] 1336).
 3) 1,2-Di[1,2-Phtalylamido]benzol (1,2-Phenylendiphtalimid). Sm. 292° (A. 327, 42 C. 1903 [1] 1336).
- $C_{22}H_{12}O_5Br_4$ 5) Tetrabrom- α -Orcinphthalin (B. 29, 2632). — *II, 1212.
- $C_{22}H_{12}O_7Cl_4$ 1) Dimethyläther d. Tetrachlordioxyfluorescein. Sm. 275° (B. 36, 1078 C. 1903 [1] 1182).
- $C_{22}H_{13}O_2N$ 3) Chinonaphtalon (Phtalon aus Chinaldin u. Naphtalsäureanhydrid). Sm. 256° (B. 37, 3611 C. 1904 [2] 1520).
- $C_{22}H_{14}ON_2$ 6) 3-Keto-2-[1-Naphtyl]imido-2,3-Dihydro- α -Naphtindol (D.R.P. 152019 C. 1904 [2] 72).
 7) 1-Keto-2-[2-Naphtyl]imido-1,2-Dihydro- β -Naphtindol. Sm. oberh. 180° (D.R.P. 152019 C. 1904 [2] 72).
- $C_{22}H_{14}O_2N_2$ 11) Phenylamidonaphtophenoxazon. Sm. oberh. 360° (B. 36, 1809 C. 1903 [2] 206).
- $C_{22}H_{14}O_2N_4$ 3) 3,8-Di-[Furylidenamido]-5,6-Naphtisodiazin. Sm. 207° (C. 1904 [1] 1614).
- $C_{22}H_{14}O_3N_2$ *1) Rosindonsäure. Sm. 227–228° (B. 36, 3624 C. 1903 [2] 1383).
 2) Isorosindonsäure. Sm. 206° u. Zers. (B. 36, 3623 C. 1903 [2] 1383).
- $C_{22}H_{14}O_5Cl_2$ 1) Dichlordimethylfluoran (aus 2-Chlor-4-Oxy-1-Methylbenzol). Sm. 285° (D.R.P. 156333 C. 1904 [2] 1673).
- $C_{22}H_{14}O_3Br_2$ 1) Dibromdimethylfluoran (aus 2-Brom-4-Oxy-1-Methylbenzol). Sm. 284 bis 285° (D.R.P. 156333 C. 1904 [2] 1673).
- $C_{22}H_{14}O_7Br_2$ 1) Aethylester d. Dibromdioxyfluorescein (B. 36, 1082 C. 1903 [1] 1182).
- $C_{22}H_{14}O_8Br_2$ 1) Dibromdioxyfluorescein (aus Hemipinsäure) (B. 36, 1074 Ann. C. 1903 [1] 1181).
- $C_{22}H_{15}ON_3$ 13) 2-Naphtylhydrazon d. 2-Naphtylisatin. Sm. 270–272° (B. 36, 1739 C. 1903 [1] 119).

- $C_{22}H_{15}O_2Cl$ 1) Verbindung (aus Piperonal u. Desoxybenzoïn). Sm. 203—204° (B. 35, 3972 C. 1903 [1] 32).
- $C_{22}H_{15}O_4N$ 2) Dibenzoat d. 2,3-Dioxypseudoindol. Sm. 170° (B. 37, 947 C. 1904 [1] 1217).
C 65,8 — H 3,7 — O 19,9 — N 10,5 — M. G. 401.
- $C_{22}H_{15}O_5N_3$ 1) γ -Keto- γ -[4-(3-Nitrobenzyliden)amidophenyl]- α -[3-Nitrophenyl]-propen. Sm. 195° (B. 37, 394 C. 1904 [1] 657).
2) γ -Keto- γ -[4-(4-Nitrobenzyliden)amidophenyl]- α -[4-Nitrophenyl]-propen. Sm. 191—193° (B. 37, 394 C. 1904 [1] 657).
- $C_{22}H_{15}O_6N$ *1) Triacetat d. Gallorubin. Sm. 234° (B. 37, 829 C. 1904 [1] 1153).
 $C_{22}H_{16}O_4N_2$ 7) Dimethylenäther d. 1-[3,4-Dioxybenzyl]-2-[3,4-Dioxyphenyl]benzimidazol. Sm. 115—116°. + C_6H_5O (B. 37, 1703 C. 1904 [1] 1497).
- $C_{22}H_{16}O_5N_2$ 3) Anilidodihydrogallorubin. Sm. 257° (B. 37, 830 C. 1904 [1] 1153).
 $C_{22}H_{16}O_6N_4$ C 61,1 — H 3,7 — O 22,2 — N 13,0 — M. G. 432.
- $C_{22}H_{16}O_{12}N_6$ 1) β -Dinitro-3-[4-Dimethylamidophenyl]- β -Naphtochinolin-1-Carbonsäure. Sm. 260—263° (B. 37, 1743 C. 1904 [1] 1599).
C 47,5 — H 2,9 — O 34,5 — N 15,1 — M. G. 556.
- $C_{22}H_{16}O_{13}N_6$ 1) β -Hexanitrotri[4-Methylphenyl]methan. Sm. 280° (B. 37, 3163 C. 1904 [2] 1049).
C 46,2 — H 2,8 — O 36,3 — N 14,7 — M. G. 572.
- $C_{22}H_{17}ON$ 1) β -Hexanitro- α -Oxytri[4-Methylphenyl]methan. Sm. 253° (B. 37, 3162 C. 1904 [2] 1049).
- $C_{22}H_{17}O_2N$ 10) γ -Keto- γ -[4-Benzylidenamidophenyl]- α -Phenylpropen. Sm. 143 bis 144° (B. 37, 392 C. 1904 [1] 657).
- $C_{22}H_{17}O_2N_4$ 14) 2-Oxy-1-(α -Furalamidobenzyl)naphtalin. Sm. 115—116° (G. 33 [1] 31 C. 1903 [1] 926).
- $C_{22}H_{17}O_3N_3$ 6) 2-[4-Dimethylamidophenylazo]-9,10-Anthrachinon. Sm. 264—266° (C. 1904 [1] 289).
- $C_{22}H_{17}O_4Br$ 1) Laktone d. β -Brom-6-Oxy-3,4-Dimethyltriphenylessigsäure. Sm. 161° (B. 37, 666 C. 1904 [1] 952).
- $C_{22}H_{17}O_4N$ 10) Aethylrhodol (D.R.P. 116415). — *III, 578.
11) Dimethylrhodol. HCl (D.R.P. 108419). — *III, 578.
- $C_{22}H_{17}O_5N$ 5) Äthylester d. 2,4,9-Triketo-1-[4-Methylphenyl]-2,3,4,9-Tetrahydro- $\beta\beta$ -Naphtindol-3-Carbonsäure. Sm. 280° u. Zers. (E. Hoyer, Dissert., Berlin 1901).
6) Amid d. 2,5-Dibenzoxylbenzol-1-Carbonsäure. Sm. 204° (Journ. of Physiology 27, 92). — *II, 1031.
- $C_{22}H_{17}O_7N_5$ C 57,0 — H 3,7 — O 24,2 — N 15,1 — M. G. 463.
1) α -Cyan- β -[3-Nitrophenyl]akrylsäureamid + α -Cyan- β -[3-Nitrophenyl]akrylsäureäthylester. Sm. 186,5° (C. 1904 [1] 878).
2) α -Cyan- β -[4-Nitrophenyl]akrylsäureamid + α -Cyan- β -[4-Nitrophenyl]akrylsäureäthylester. Sm. 194—195° (C. 1904 [1] 878).
- $C_{22}H_{17}N_8S_2$ 1) Benzyläther d. 6-Merkapto-4-Thiocarbonyl-1,2-Diphenyl-1,4-Dihydro-1,3,5-Triazin β Sm. 190—191° (Ann. 30, 178 C. 1903 [2] 872).
- $C_{22}H_{18}ON_2$ 15) N-Aethyl- α -Phenylpyrophtalin. Sm. 194°. (2HCl, PtCl₄) (B. 36, 3922 C. 1904 [1] 98).
- $C_{22}H_{18}O_2N_2$ 12) 1-Methylamido-4-[4-Methylphenyl]amido-9,10-Anthrachinon (D.R.P. 139581 C. 1903 [1] 680).
13) 1-Methylamido-5-Benzylamido-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 751).
14) 1-Methylamido-5-[4-Methylphenyl]amido-9,10-Anthrachinon. Sm. 199° (D.R.P. 139581 C. 1903 [1] 680).
15) 1-Methylamido-8-[4-Methylphenyl]amido-9,10-Anthrachinon (D.R.P. 139581 C. 1903 [1] 680).
16) 3-[4-Dimethylamidophenyl]- β -Naphtochinolin-1-Carbonsäure. Sm. 293—295° (B. 37, 1743 C. 1904 [1] 1599).
- $C_{22}H_{18}O_3N_3$ 4) s-Dimethylrhodamin (D.R.P. 48731). — *III, 575.
 $C_{22}H_{18}O_4N_2$ 9) Di[Phenylimid] d. cis-Hexahydrobenzol-1,2,4,5-Tetracarbonsäure. Sm. 98° (Soc. 83, 788 C. 1903 [2] 440).
C 61,4 — H 4,2 — O 14,9 — N 19,5 — M. G. 215.
- $C_{22}H_{18}O_4N_6$ 1) 4,6-Dinitro-2'-Amido-3-[1-Amido-2-Naphtyl]amidodiphenylamin. Sm. 259° (B. 37, 3891 C. 1904 [2] 1654).
- $C_{22}H_{18}O_4Cl_6$ 1) Diäthylester d. 1,3-Dichlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure. Sm. 178° (B. 37, 219 C. 1904 [1] 588).

- $C_{22}H_{18}O_4S_2$ 3) 1,4-Diacetat d. 2,5-Dimerkapto-1,4-Dioxybenzol-2,5-Diphenyläther. Sm. 168—168,5° (A. 336, 135 C. 1904 [2] 1298).
- 4) 1,4-Diacetat d. 2,6-Dimerkapto-1,4-Dioxybenzol-2,6-Diphenyläther. Sm. 112—114° (A. 336, 137 C. 1904 [2] 1299).
- $C_{22}H_{18}O_3Cl_4$ 1) Tetraacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 173° (A. 325, 61 C. 1903 [1] 462).
- 2) Tetraacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 180° (A. 325, 62 C. 1903 [1] 462).
- $C_{22}H_{18}O_3Br_4$ 2) Tetraacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 231° (A. 325, 40 C. 1903 [1] 461).
- 3) Tetraacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan? Sm. 191° (A. 325, 41 C. 1903 [1] 461).
- $C_{22}H_{18}N_3Cl$ 1) 1-[2-Chlorphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 159° (J. pr. [2] 67, 495 C. 1903 [2] 251).
- 2) 1-[3-Chlorphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 121° (J. pr. [2] 67, 497 C. 1903 [2] 251).
- 3) 1-[4-Chlorphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 155° (J. pr. [2] 67, 499 C. 1903 [2] 251).
- 4) Nitril d. β -Phenylhydrazon- γ -Phenyl- α -[4-Chlorphenyl]buttersäure. Sm. 131° (J. pr. [2] 67, 391 C. 1903 [1] 1357).
- $C_{22}H_{18}N_3Br$ 1) 1-[4-Bromphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 168° (J. pr. [2] 67, 501 C. 1903 [2] 251).
- $C_{22}H_{19}OCl$ 2) γ -Chlor- α -Keto- $\alpha\beta$ -Diphenyl- γ -[4-Methylphenyl]propan. Sm. 156° (B. 35, 3966 C. 1903 [1] 30).
- $C_{22}H_{19}O_2N$ 8) 4-Methyläther d. γ -Oximido- $\beta\gamma$ -Diphenyl- α -[4-Oxyphenyl]propen. Sm. 155° (B. 35, 3971 C. 1903 [1] 31).
- 9) Phenylamidoformiat d. 6-Oxy-3-Methyl- $\alpha\alpha$ -Diphenyläthen. Sm. 101° (B. 36, 4002 C. 1904 [1] 174).
- $C_{22}H_{19}O_2N_3$ 6) 2,8-Diamido-3,7-Dimethyl-5-Phenylakridin-5²-Carbonsäure (D.R.P. 141356 C. 1903 [1] 1284).
- $C_{22}H_{19}O_2N_5$ C 68,6 — H 4,9 — O 8,3 — N 18,2 — M. G. 385.
- $C_{22}H_{19}O_2Cl$ 1) $\gamma\delta$ -Di[Phenylhydrazon]- α -[3-Nitrophenyl]- α -Buten. Sm. 206—207° (C. 1904 [1] 28; A. 330, 253 C. 1904 [1] 946).
- $C_{22}H_{19}O_3N$ 5) Methylhydroxyd d. 5-Phenylakridin-5²-Carbonsäuremethylester. Methylsulfat, Trichromat, Pikrat (B. 37, 1008 C. 1904 [1] 1276).
- 6) Benzoat d. N-Benzoyl- β -Phenylamido- α -Oxyäthan. Sm. 91—92° (A. 332, 211 C. 1904 [2] 211; B. 37, 3942 C. 1904 [2] 1597).
- $C_{22}H_{19}O_3N_3$ 3) Phenylmonamid d. $\alpha\beta$ -Di[2-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (A. 332, 270 C. 1904 [2] 701).
- $C_{22}H_{19}O_3N_5$ C 65,8 — H 4,7 — O 12,0 — N 17,5 — M. G. 401.
- 1) 4'-Dimethylamido-4-[α -Cyanbenzyliden]amido-3-Oxydiphenylamin. Sm. 213—214° (J. pr. [2] 69, 239 C. 1904 [1] 1269).
- $C_{22}H_{19}O_3Br$ 2) p -Brom-4-Oxy-2,5-Dimethyltriphenylelessigsäure. Sm. 232—235° (B. 37, 668 C. 1904 [1] 953).
- $C_{22}H_{19}O_4N$ 11) Dimethyläther d. Phenolphthaleinoxim. Sm. 178° (B. 36, 2965 C. 1903 [2] 1007).
- 12) Dibenzoat d. 2-[$\beta\beta$ -Dioxyisopropyl]pyridin. Sm. 90—91° (B. 37, 741 C. 1904 [1] 1089).
- $C_{22}H_{19}O_4N_3$ 4) γ -[4-Nitrophenyl]hydrazon- $\alpha\gamma$ -Diphenylbuttersäure. Sm. 188—189° (Soc. 85, 1363 C. 1904 [2] 1646).
- 5) Di[4-Methylphenylamid] d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 223—225° u. Zers. (C. 1903 [2] 431).
- $C_{22}H_{19}O_4Cl_2$ 1) Diäthylester d. 1-Chlor-1,4-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure. Sm. 142° (B. 37, 221 C. 1904 [1] 588).
- $C_{22}H_{19}O_7N_3$ C 60,4 — H 4,3 — O 25,6 — N 9,6 — M. G. 437.
- 1) p -Trinitro- α -Oxytri[4-Methylphenyl]methan. Sm. 162° (B. 37, 3162 C. 1904 [2] 1049).
- $C_{22}H_{19}O_6N_5$ C 54,9 — H 3,9 — O 26,6 — N 14,6 — M. G. 481.
- 1) Äthylester d. 2,4,6-Trinitro-3,5-Di[Phenylamido]essigsäure. Sm. 201°. + 2C₆H₆ (Am. 32, 176 C. 1904 [2] 951).
- $C_{22}H_{19}NS$ 1) 4'-Cinnamylidenamido-4-Methyldiphenylsulfid. Sm. 118° (J. pr. [2] 68, 273 C. 1903 [2] 993).

- $C_{22}H_{19}N_3S$ 2) 5-Phenyl-4-Benzyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 234° (*J. pr.* [2] 67, 261 *C.* 1903 [1] 1266).
- $C_{22}H_{20}OS_8$ 1) Diäthyläther d. 3,5-Dimerkapto-4-Thiocarbonyl-1-Keto-2,6-Diphenyl-1,4-Dihydrobenzol. Sm. 141,5—142° (*B.* 37, 1606 *C.* 1904 [1] 1444).
- $C_{22}H_{20}O_2N_2$ 27) α -Benzoyl- α - β -Di[4-Methylphenyl]harnstoff. Sm. 152—153° (*B.* 37, 3118 *C.* 1904 [2] 1317).
- 28) isom. α - β -Diacetyl- α -Phenyl- β -[4-Biphenyl]hydrazin. Sm. 176° (*C.* 1904 [1] 1491).
- 29) isom. α - β -Diacetyl- α -Phenyl- β -[4-Biphenyl]hydrazin. Sm. 217° (*C.* 1904 [1] 1491).
- $C_{22}H_{20}O_3N_2$ 11) Äthyläther d. 2,5-Di[Benzoylamido]-1-Oxybenzol. Sm. 213° (*B.* 36, 4098 *C.* 1904 [1] 270; *B.* 36, 4125 *C.* 1904 [1] 273).
- $C_{22}H_{20}O_3S$ 3) γ -[4-Methylphenyl]sulfon- α -Keto- α - γ -Diphenylpropan. Sm. 169 bis 170° (*Am.* 31, 182 *C.* 1904 [1] 877). — *III, 169.
- $C_{22}H_{20}O_4N_2$ 19) 1,3-Di[Phenylamidomethyl]benzol-1³,3²-Dicarbonsäure (m-Xylylendianthranilsäure). Sm. 247° u. Zers. K_2 , Ca, Fe_2 (*B.* 36, 1674 *C.* 1903 [2] 28).
- $C_{22}H_{20}O_4N_4$ *1) Phloroglucinbutanondisazobenzol. Sm. 234—235° (*Ar.* 242, 498 *C.* 1904 [2] 1418).
- 3) α -Di[4-Nitrobenzyl]- β -[4-Methylbenzyliden]hydrazin. Sm. 163° (*B.* 22, 439 *C.* 1904 [1] 15).
- 4) Äthylester d. 4,6-Diphenylazo-3,5-Dioxy-1-Methylbenzol-2-Carbonsäure. Sm. 186°. + $C_2H_4O_2$ (*B.* 37, 1409 *C.* 1904 [1] 1416).
- $C_{22}H_{20}O_{10}N_2$ 2) α -Di[2-Carboxybenzoylamido]butan- α -Dicarbonsäure + $4H_2O$. Sm. 101—106° (192—193° wasserfrei) (*C.* 1903 [2] 34).
- $C_{22}H_{20}O_{18}N_4$ *C.* 48,2 — *H.* 3,6 — *O.* 38,0 — *N.* 10,2 — *M. G.* 548.
- 1) 3,3'-Dinitroazoxybenzol-4,4'-Di[Isopropyl- β - β' -Dicarbonsäure] (*B.* 36, 2675 *C.* 1903 [2] 948).
- $C_{22}H_{21}ON$ 10) α -Oximido- α - γ -Triphenylbutan. Sm. 163° (*Am.* 31, 658 *C.* 1904 [2] 447).
- 11) γ -Oximido- α - γ -Triphenyl- β -Methylpropan. Sm. 145° (*Am.* 31, 657 *C.* 1904 [2] 446).
- 12) N-Acetyl-2-Methylamidotriphenylmethan. Sm. 147,5—148,5° (*B.* 37, 3207 *C.* 1904 [2] 1473).
- $C_{22}H_{21}ON_5$ 2) α -[4-Methylphenyl]azomethylenamido- α -[4-Methylphenyl]- β -Phenylharnstoff. Sm. 184—185° (*B.* 36, 1373 *C.* 1903 [1] 1343).
- $C_{22}H_{21}O_2N$ 8) Benzyläther d. 4-Dimethylamido-3'-Oxydiphenylketon. Sm. 86° (*D. R. P.* 65952). — *III, 153.
- 9) α -[2-Naphtyl]amido- β -Acetyl- γ -Keto- α -Phenylbutan. Sm. 114° (*Soc.* 85, 1175 *C.* 1904 [2] 1215).
- 10) Benzoeat d. 4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 118 bis 118,5° (*A.* 334, 340 *C.* 1904 [2] 989).
- $C_{22}H_{21}O_4N$ 3) Propylester d. β -Cyan- α - γ -Dibenzoylpropan- β -Carbonsäure. Sm. 114° (*A. ch.* [7] 10, 174). — *II, 1188.
- $C_{22}H_{21}O_6N$ *1) Monoacetat d. Chelidonin. Sm. 161° (*C.* 1904 [1] 1224).
- 2) Diäthylester d. β -Phtalylamido- α -Phenyläthan- β - β' -Dicarbonsäure. Sm. 105—106° (*C.* 1903 [2] 33).
- $C_{22}H_{21}O_{15}Br_3$ 1) Dibromcarminsäurehydrobromid. HBr (*B.* 33, 152). — *II, 1228.
- $C_{22}H_{21}N_3S$ 1) Methyläther d. α -[α -Benzyl- β -Benzylidenhydrazido]- α -Phenylamido- α -Merkaptomethan. Sm. 104° (*B.* 37, 2329 *C.* 1904 [2] 313).
- $C_{22}H_{22}ON_2$ 15) 4-Dimethylamido-4'-Methylphenylamidodiphenylketon. Sm. 141 bis 142° (*D. R. P.* 44077). — *III, 149.
- 16) Äthylbenzyl-4-Benzoylamidophenylamin. Sm. 131,5° (*A.* 334, 263 *C.* 1904 [2] 902).
- 17) α -[4-Methylbenzoyl]- α - β -Di[2-Methylphenyl]hydrazin. Sm. 132° (*C. r.* 137, 714 *C.* 1903 [2] 1428).
- $C_{22}H_{22}ON_4$ 7) 3-Oxy-2,6-Di[Phenylhydrazonmethyl]-1,4-Dimethylbenzol. Sm. 209° u. Zers. (*B.* 35, 4105 *C.* 1903 [1] 149).
- $C_{22}H_{22}O_2N_2$ 6) 3-Acetylamido-2-Methyl-1,2-Naphtakridin-4-Methylbenzolsulfonat (*A.* 327, 122 *C.* 1903 [1] 1221).
- $C_{22}H_{22}O_3N_2$ 4) Diacetylderivat d. 7-[4-Dimethylamidophenyl]amido-2-Oxy-naphtalin. Sm. 100° (*J. pr.* [2] 69, 244 *C.* 1904 [1] 1269).

- $C_{22}H_{22}O_3S$ 1) Tri[4-Methylphenyl]methan- α -Sulfonsäure. Na + H_2O (B. 37, 3158 C. 1904 [2] 1048).
- $C_{22}H_{22}O_4N_6$ 2) 2,4,2',4'-Tetraketo-5,5,5',5'-Tetramethyl-3,3'-Diphenylloktahydro-1,1'-Azoimidazol. Zers. bei 270° (C. 1904 [2] 1029).
- $C_{22}H_{22}O_4Br_2$ *1) Diäthylester d. 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (B. 37, 220 Anm. C. 1904 [1] 588).
- $C_{22}H_{22}O_4Br_4$ 1) $\beta\gamma\zeta\eta$ -Tetrabrom- $\alpha\beta$ -Diphenylloktan- $\delta\epsilon$ -Dicarbonsäure. Sm. 201° (A. 331, 172 C. 1904 [1] 1212).
- $C_{22}H_{22}O_5N_2$ 3) p-Amidobenzoësäurezodesmotroposantonin. Zers. bei 260° (B. 36, 1392 C. 1903 [1] 1360).
- $C_{22}H_{22}O_6N_2$ 1) Di[Phenylmonamid] d. cis-Hexahydrobenzol-1,2,4,5-Tetracarbon-säure. Sm. 172° (Soc. 83, 787 C. 1903 [2] 439).
- $C_{22}H_{22}O_6Cl_4$ 1) 4,4'-Diacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan- $\alpha\beta$ -Diäthyläther. Sm. 139° (A. 325, 60 C. 1903 [1] 462).
- $C_{22}H_{23}ON$ C 83,3 — H 7,3 — O 5,0 — N 4,4 — M. G. 317.
- 1) α -Benzylidenamid- α -[2-Oxy-1-Naphtyl]pentan (β -Naphtolvaleralbenzalamin). Sm. 154° (G. 33 [1] 22 C. 1903 [1] 925).
- 2) Tri[4-Methylphenyl]methylhydroxylamin. Sm. 103—105° (B. 37, 3161 C. 1904 [2] 1049).
- 3) 1-Butyl-3-Phenyl-1,3-Dihydro-4,2- β -Naphtisoxazin. Sm. 128° (G. 33 [1] 22 C. 1903 [1] 925).
- 4) 3-Butyl-1-Phenyl-1,3-Dihydro-4,2- β -Naphtisoxazin. Sm. 137° (G. 33 [1] 22 C. 1903 [1] 925).
- $C_{22}H_{23}ON_3$ 2) α -Phenylhydrazon- γ -Hydroxylamido- $\alpha\gamma$ -Diphenylbutan. Sm. 125 bis 126° (A. 330, 231 C. 1904 [1] 944).
- 3) Phenylamid d. Di[2-Methylphenylamido]essigsäure. Sm. 166,5 bis 167,5° (A. 332, 262 C. 1904 [2] 699).
- $C_{22}H_{23}O_4N$ *1) Gnoskopin (Ar. 241, 267 C. 1903 [2] 447).
- *2) Dehydrocorydalin. $HNO_3 + 2H_2O$ (Soc. 83, 619 C. 1903 [1] 1364).
- 6) Diacetat d. Methylapomorphin. + C_6H_6O (Sm. 85—90°) (B. 35, 4389 C. 1903 [1] 339).
- $C_{22}H_{23}O_5N$ 3) Benzoylanhydrocortarninaceton. Sm. 124° (B. 37, 2750 C. 1904 [2] 546).
- 4) Acetylanhydrocortarninacetophenon. Sm. 139—140° (B. 37, 2749 C. 1904 [2] 546).
- $C_{22}H_{23}O_7N$ *1) Narcotin (B. 36, 1527 C. 1903 [2] 50; Soc. 83, 617 C. 1903 [1] 590; Ar. 241, 259 C. 1903 [2] 447).
- $C_{22}H_{23}O_8N$ 2) Acetat d. Tetramethylhämatoxylonoxim. Sm. 179—183° (B. 36, 3714 C. 1904 [1] 38).
- $C_{22}H_{23}N_3S$ 1) α -Aethyl- β -(4-Aethylbenzylamidophenyl)thioharnstoff. Sm. 149° (A. 334, 264 C. 1904 [2] 902).
- $C_{22}H_{24}ON_2$ 2) 4-Diäthylamidophenyl-4-Methylamido-1-Naphtylketon. Sm. 149° (D. R. P. 84655; B. 37, 1903 C. 1904 [2] 115). — *III, 195.
- $C_{22}H_{24}O_2N_2$ 3) 4,6-Dioxy-1,3-Di[4-Methylamidobenzyl]benzol. Sm. 174—175°. 2HCl, H_2SO_4 (M. 23, 993 C. 1903 [1] 289).
- $C_{22}H_{24}O_5N_2$ 3) p-Toluidinazodesmotroposantonin. Sm. 275° (B. 36, 1391 C. 1903 [1] 1359).
- $C_{22}H_{24}O_4N_6$ C 60,6 — H 6,4 — O 14,7 — N 19,3 — M. G. 436.
- 1) Benzylidenhydrazid d. Benzylidentri[Amidoacetyl]amidoessigsäure. Sm. 228° (B. 37, 1298 C. 1904 [1] 1336).
- $C_{22}H_{24}O_5N_2$ 3) Tetramethyläther d. 6,7-Dioxy-1-[6-Acetylamido-3,4-Dioxybenzyl]-isochinolin. Sm. 162°. + C_6H_6 (Sm. 125°) (B. 37, 1934 C. 1904 [2] 129).
- 4) Diäthylester d. 1-Benzoyl-4-Phenyltetrahydropyrazol-3,5-Dicarbonsäure. Sm. 125° (B. 36, 3779 C. 1904 [1] 41).
- $C_{22}H_{24}O_6N_3$ *5) 2-Methylphenylamid d. d-Diacetylweinsäure. Sm. 229° (Soc. 83, 1366 C. 1904 [1] 85).
- $C_{22}H_{24}O_{10}N_4$ C 52,4 — H 4,8 — O 31,7 — N 11,1 — M. G. 252.
- 1) Phenylisocrotonsäuremethylesterpseudonitrosit. Sm. 118° u. Zers. (A. 329, 250 C. 1904 [1] 31).
- $C_{22}H_{25}O_4N$ 2) Tetramethyläther d. 6,7-Dioxy-2-Aethyl-1-[3,4-Dioxybenzyliden]-1,2-Dihydroisochinolin (N-Aethylisopapaverin). Sm. 101°. Pikrat (B. 37, 527 C. 1904 [1] 818).

- $C_{22}H_{25}O_4N_5$ C 62,4 — H 5,9 — O 15,1 — N 16,5 — M. G. 423.
1) Benzylidenhydrazid d. α -[α -Benzoylamidoacetylamidopropionyl]-amidopropionsäure. Sm. 238° (*J. pr.* [2] 70, 125 *C.* 1904 [2] 1087).
- $C_{22}H_{25}O_3N$ C 68,9 — H 6,5 — O 20,9 — N 3,7 — M. G. 383.
1) Aethylester d. Anhydrooctarninphenylessigsäure. Sm. 91–92° (2HCl, PtCl₄), HNO₃ (*B.* 37, 2739 *C.* 1904 [2] 544).
- $C_{22}H_{25}O_6N$ *1) Colehelein (*C.* 1903 [2] 1133).
- $C_{22}H_{25}O_{11}N$ *1) Diacetat d. Oxyeodein. Sm. 160–161° (*B.* 36, 3069 *C.* 1903 [2] 953).
- $C_{22}H_{26}O_{11}N$ *1) Tetraacetylhellicinyanhydrin. Sm. 162° (*B.* 36, 2579 *C.* 1903 [2] 621).
- $C_{22}H_{26}O_2N_2$ 16) 3,5-Di[Benzoylamido]-1,1-Dimethylhexahydrobenzol. Sm. 263 bis 264° (*A.* 328, 110 *C.* 1903 [2] 245).
- $C_{22}H_{26}O_3N_2$ 9) p-Toluidinazodesmotroposantonigsäure. Sm. 214° (*B.* 36, 1393 *C.* 1903 [1] 1360).
- 10) Cinchonidinkohlensäureäthylester. Sm. 85° (D.R.P. 91370; D.R.P. 118122 *C.* 1901 [1] 600; D.R.P. 123748 *C.* 1901 [2] 796). — *III, 641.
- $C_{22}H_{26}O_4N_2$ 11) Methylcarbonat d. Chinin. Sm. 123° (D.R.P. 91370). — *III, 627.
- $C_{22}H_{27}O_4N$ *1) d-Corydalin (*Soe.* 83, 618 *C.* 1903 [1] 590).
- $C_{22}H_{27}O_4N_3$ C 66,5 — H 6,8 — O 16,1 — N 10,6 — M. G. 397.
1) α -[α -Phenylureidoisocapronyl]amido- β -Phenylpropionsäure. Sm. 193 bis 195° u. Zers. (*B.* 37, 3309 *C.* 1904 [2] 1306).
2) isom. α -[α -Phenylureidoisocapronyl]amido- β -Phenylpropionsäure. Sm. 183–184° (*B.* 37, 3309 *C.* 1904 [2] 1306).
- $C_{22}H_{27}O_5N$ 5) 3,4,3',4'-Tetramethyläther- β -Aethyläther d. α -[β -Oxyäthenyl]imido- α - β -Di[3,4-Dioxyphenyl]äthan. Sd. 255–265°_{0,35} (*A.* 329, 58 *C.* 1903 [2] 1448).
- $C_{22}H_{27}O_{12}N$ *1) Tetraacetylglyko-o-Oxymandelsäureamid. Sm. 213° (*B.* 36, 2579 *C.* 1903 [2] 621).
- $C_{22}H_{28}ON_2$ 2) α -Acetyl- α -[2,4,6-Trimethylbenzyl]- β -[2,4,6-Trimethylbenzyliden]-hydrazin. Sm. 155° (*C.* 1903 [1] 142).
- $C_{22}H_{28}O_2N_2$ 13) Di[Phenylamid] d. β -Methylheptan- γ - ζ -Dicarbonsäure. Sm. 231° (*C. r.* 136, 458 *C.* 1903 [1] 696).
- $C_{22}H_{28}O_2N_4$ 3) 3,5-Di[Phenylamidoformylamido]-1,1-Dimethylhexahydrobenzol. Sm. 248° (*A.* 328, 110 *C.* 1903 [2] 245).
- $C_{22}H_{28}O_3N_2$ *2) Yohimbin (oder C₂₃H₃₂O₄N₂). Sm. 234–234,5°, HCl, HNO₃ (*C.* 1897 [2] 978; 1899 [1] 529; *B.* 37, 1759 *C.* 1904 [1] 1527; *B.* 36, 169 *C.* 1903 [1] 471).
- $C_{22}H_{28}O_6N_2$ 2) Phenylhydrazon d. Glutakonylglutakonsäuretriäthylester. Sm. 126 bis 127° (*C. r.* 136, 693 *C.* 1903 [1] 960).
- $C_{22}H_{28}N_2Cl_2$ 1) polym. Isocamyliden-4-Chlorphenylamin. Sm. 104° (*A.* 328, 129 *C.* 1903 [2] 790).
- $C_{22}H_{28}N_2S_4$ *1) Dipropyläther d. Di[Benzylimidomerkaptomethyl]disulfid (*B.* 36, 2266 *C.* 1903 [2] 562).
2) Dibenzyläther d. Di[Propylimidomerkaptomethyl]disulfid. Fl. (*B.* 36, 2267 *C.* 1903 [2] 562).
- $C_{22}H_{29}ON_5$ *1) Aethyläther d. 5-Oxy-3-Diäthylamido-4-Phenylazo-3-Methyl-1-Phenyl-2,3-Dihydropyrazol. Sm. 135–136° (*B.* 36, 1451 *C.* 1903 [1] 1360).
- $C_{22}H_{29}O_2N$ *1) Aethyläther d. 4-Keto-1-[4-Oxy-2-Methyl-5-Isopropylphenyl]-imido-2-Methyl-5-Isopropyl-1,4-Dihydrobenzol. (*B.* 36, 2889 *C.* 1903 [2] 875).
- $C_{22}H_{29}O_4N$ 2) Methylhydroxyd d. Methylthebenindimethyläther. Salze siehe (*B.* 37, 2787 *C.* 1904 [2] 716).
- $C_{22}H_{30}O_2N_2$ 2) O-Aethyläther d. 4-Oximido-1-[4-Oxy-2-Methyl-5-Isopropylphenyl]-imido-2-Methyl-5-Isopropyl-1,4-Dihydrobenzol. Sm. 124–125° (*B.* 36, 2890 *C.* 1903 [2] 875).
- 3) Di[1-Piperidylmethyläther] d. 2,6-Dioxynaphtalin. Sm. 215–220° u. Zers. (D.R.P. 89979). — *IV, 18.
- $C_{22}H_{30}O_4Cl_4$ 1) Diacetyl d. 2,3,5,6-Tetrachlor-1,4-Dioxybenzol. Sm. 74° (*Bl.* [3] 29, 1121 *C.* 1904 [1] 259).
- $C_{22}H_{30}NJ$ 1) Jodbenzylat d. d-2-Propyl-1-Benzylhexahydropyridin. Sm. 176° (*B.* 37, 3638 *C.* 1904 [2] 1511).
- $C_{22}H_{30}N_2J_2$ 1) Dijodmethylat d. $\alpha\beta$ -Di[1,2,3,4-Tetrahydro-1-Chinolyl]äthan. Sm. 206° u. Zers. (*B.* 36, 3800 *C.* 1904 [1] 21).

- $C_{22}H_{31}O_2N$ 4) Monoäthyläther d. Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin (*B. 36*, 2891 *C. 1903* [2] 875).
- $C_{22}H_{33}O_{10}Cl_3$ 1) Verbindung (aus Camphersäure u. Trichloressigsäure) (*R. 21*, 354 *C. 1903* [1] 150).
- $C_{22}H_{33}N_2J$ 1) Jodbenzylat d. Spartein. Sm. 230° (*Ar. 242*, 517 *C. 1904* [2] 1412).
- $C_{22}H_{34}O_{10}Cl_2$ 1) Verbindung (aus Camphersäure u. Dichloressigsäure) (*R. 21*, 354 *C. 1903* [1] 150).
- $C_{22}H_{35}O_9N$ C 73,1 — H 9,7 — O 13,3 — N 3,9 — M. G. 361.
- 1) Bornylester d. Camphorylamidoessigsäure. HCl (*Ar. 240*, 651 *C. 1903* [1] 399).
- $C_{22}H_{35}O_4N$ 2) 2-Nitrophenylester d. Palmitinsäure. Sm. 51–52° (*A. 332*, 205 *C. 1904* [2] 211).
- $C_{22}H_{35}O_4N_3$ C 65,2 — H 8,6 — O 15,8 — N 10,4 — M. G. 405.
- 1) Trimethyläther d. γ -Semicarbazon- α -[2,4,5-Trioxypheyl]- α -Dodeken. Sm. 151–152° (*Ar. 242*, 103 *C. 1904* [1] 1008).
- $C_{22}H_{35}O_{10}Cl$ 1) Verbindung (aus Camphersäure u. Chloressigsäure) (*R. 21*, 353 *C. 1903* [1] 150).
- $C_{22}H_{36}O_4N_2$ C 67,4 — H 9,2 — O 16,3 — N 7,1 — M. G. 392.
- 1) Verbindung (aus Nitrosodihydrolaurolaktam). Sm. 104° (*Am. 32*, 291 *C. 1904* [2] 1222).
- $C_{22}H_{37}O_2N$ 4) 2-Oxyphenylamid d. Palmitinsäure. Sm. 78–79° (*A. 332*, 207 *C. 1904* [2] 211).
- $C_{22}H_{37}O_3N$ C 72,7 — H 10,2 — O 13,2 — N 3,9 — M. G. 363.
- 1) Menthylester d. Camphorylamidoessigsäure. HCl (*Ar. 240*, 648 *C. 1903* [1] 399).
- $C_{22}H_{38}O_2S_3$ 1) Anhydrid d. Menthylxanthogensäure. Sm. 148–149° (*C. 1904* [1] 1347).
- $C_{22}H_{38}O_2S_4$ *1) Menthylidioxysulfocarbonat. Sm. 92,5–93° (*C. 1904* [1] 1347; 1904 [2] 983).
- $C_{22}H_{39}OCl$ 1) Chlorid d. Behenolsäure. Sm. 29–30° (*B. 36*, 3602 *C. 1903* [2] 1314).
- $C_{22}H_{40}O_2N_2$ 2) Oxamid d. β -Amido- β -Dimethyl- β -Okten. Sm. 96° (*Bl. [3]* 29, 1048 *C. 1903* [2] 1439).
- $C_{22}H_{41}ON$ C 78,8 — H 12,2 — O 4,8 — N 4,2 — M. G. 335.
- 1) Amid d. Behenolsäure. Sm. 90° (*B. 36*, 3602 *C. 1903* [2] 1314).
- $C_{22}H_{41}O_2Br$ *1) Brombrassidinsäure. Sm. 35° (*B. 36*, 3603 *C. 1903* [2] 1314).
- $C_{22}H_{41}O_2J$ 1) Jodphellansäure (*M. 25*, 293 *C. 1904* [1] 1573).
- $C_{22}H_{41}O_3Br$ 1) Säure (aus Dibromoxybehensäure). Sm. 44° (*B. 36*, 3604 *C. 1903* [2] 1314).
- $C_{22}H_{42}O_2Br_2$ *1) Dibrombehensäure (aus Brassidinsäure). Sm. 54° (*J. pr. [2]* 67, 312 *C. 1903* [1] 1404).
- *2) Dibrombehensäure (aus Erukasäure). Sm. 42–43° (*J. pr. [2]* 67, 310 *C. 1903* [1] 1404).
- *3) Dibrombehensäure (aus Isoerukasäure). Sm. 44–46° (*G. 34* [2] 53 *C. 1904* [2] 693).
- $C_{22}H_{42}N_4S_2$ 1) Verbindung (aus Valeraldehyd, Piperidin u. Rubeanwasserstoff). Sm. 119° (*C. 1899* [2] 1025). — *IV, 18.
- $C_{22}H_{43}O_3Cl$ *1) Chloroxybehensäure (aus Brassidinsäure) (*B. 36*, 3605 *C. 1903* [2] 1314).
- $C_{22}H_{43}O_3Br$ 1) Bromoxybehensäure (aus Brassidinsäure) (*B. 36*, 3605 *C. 1903* [2] 1314).
- 2) Bromoxybehensäure (aus Erukasäure) (*B. 36*, 3605 *C. 1903* [2] 1314).
- $C_{22}H_{43}O_4Br$ 1) Bromdioxxybehensäure. Sm. 71° (*B. 36*, 3604 *C. 1903* [2] 1314).
- $C_{22}H_{45}O_3N$ C 71,2 — H 12,1 — O 12,9 — N 3,8 — M. G. 371.
- 1) Amidooxybehensäure. Sm. 86° (*B. 36*, 3606 *C. 1903* [2] 1314).
- $C_{22}H_{47}O_8N_9$ C 46,7 — H 8,3 — O 22,7 — N 22,3 — M. G. 565.
- 1) Kaseinokyrin. $3H_2SO_4$ (*C. 1904* [2] 908; *H. 43*, 46 *C. 1904* [2] 1660).

— 22 IV —

- $C_{22}H_{10}O_2N_2S_2$ 1) Diisatinindophtenin (*B. 37*, 3351 *C. 1904* [2] 1058).
- $C_{22}H_{14}O_6N_2Br_4$ 1) 2,4,6,8-Tetrabrom-1,5-Di[Diacetylamido]-9,10-Anthrachinon. Zers. oberh. 220° (*B. 37*, 4184 *C. 1904* [2] 1742).

- $C_{22}H_{14}O_7N_4S_2$ 1) Disazoverbindung (aus 4,4'-Diamidobiphenyl-2,2'-Disulfonsäure). Ba (*J. pr.* [2] 66, 573 *C.* 1903 [1] 520).
- $C_{22}H_{15}O_5N_3Cl$ 2) 4-Keto-3-Benzoyl-2-[4-Chlorbenzyl]-3,4-Dihydro-1,3-Benz-diazin. Sm. 210° (*J. pr.* [2] 69, 22 *C.* 1904 [1] 640).
- $C_{22}H_{16}O_5N_3S$ 1) 4-Keto-2-Phenylimido-3-Phenyl-5-[2-Oxybenzyliden]tetrahydrothiazol. Sm. 230–235° (*M.* 24, 516 *C.* 1903 [2] 837).
- $C_{22}H_{16}O_5NCl$ 1) 6-Chlor-3-Aethylamidofluoran. Sm. 186° (D.R.P. 85885). — *III, 574.
- 2) Chlordimethylamidofluoran. Sm. 218° (D.R.P. 139727 *C.* 1903 [1] 796).
- 3) Chloräthylamidofluoran (D.R.P. 139727 *C.* 1903 [1] 796).
- $C_{22}H_{16}O_6N_3Br_2$ 1) 2,6-Dibrom-1,5-Di[Diacetyl-amido]-9,10-Anthrachinon. Zers. oberh. 240° (*B.* 37, 4183 *C.* 1904 [2] 1741).
- $C_{22}H_{18}O_2NJ$ 1) Jodmethylat d. 5-Phenylakridin-5'-Carbonsäure. Sm. 226–227° (*B.* 37, 1008 *C.* 1904 [1] 1276).
- $C_{22}H_{19}O_2NBr_2$ 1) N-Benzoylderivat d. Phenyl-3,6-Dibrom-4-Oxy-2,5-Dimethylbenzylamin. Sm. 163–165° (*B.* 37, 3940 *C.* 1904 [2] 1597).
- 2) Benzoat d. Phenyl-3,6-Dibrom-4-Oxy-2,5-Dimethylbenzylamin. Sm. 174–175° (*B.* 37, 3939 *C.* 1904 [2] 1597).
- $C_{22}H_{19}O_2NS$ 2) 3,4-Methylenäther d. 4-[3,4-Dioxybenzyliden]amido-3,4'-Dimethyldiphenylsulfid. HCl (*J. pr.* [2] 68, 289 *C.* 1903 [2] 995).
- $C_{22}H_{19}O_2N_2Br_3$ *1) 2,5,6-Tribrom-4-Oxy-1-Phenylamidomethyl-3-Acetylphenylamidomethylbenzol. Sm. 209° (*A.* 332, 180 *C.* 1904 [2] 209; *B.* 37, 3907 *C.* 1904 [2] 1592).
- $C_{22}H_{20}O_2N_2S$ 3) 4-[4-Methylphenyl]merkapt-2-Methylphenylamid d. Phenyl-oxaminsäure. Sm. 238° (*J. pr.* [2] 68, 284 *C.* 1903 [2] 995).
- $C_{22}H_{20}N_3JS$ 1) Methyläther d. 5-Jod-3-Merkapto-1,5-Diphenyl-4-Benzyl-4,5-Dihydro-1,2,4-Triazol. Sm. 176° (*J. pr.* [2] 67, 228 *C.* 1903 [1] 1261).
- 2) Methyläther d. 5-Jod-3-Merkapto-4,5-Diphenyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 270° (*J. pr.* [2] 67, 261 *C.* 1903 [1] 1266).
- 3) Aethyläther d. 5-Jod-3-Merkapto-1,4,5-Triphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 304° u. Zers. (*J. pr.* [2] 67, 243 *C.* 1903 [1] 1263).
- $C_{22}H_{21}ON_3S$ 2) 3-Methyläther d. 3-Merkapto-5-Oxy-1,5-Diphenyl-4-Benzol-4,5-Dihydro-1,2,4-Triazol. Sm. 135° (*J. pr.* [2] 67, 229 *C.* 1903 [2] 1262).
- 3) 3-Methyläther d. 3-Merkapto-5-Oxy-4,5-Diphenyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 136° (*J. pr.* [2] 67, 262 *C.* 1903 [1] 1266).
- 4) 3-Aethyläther d. 3-Merkapto-5-Oxy-1,4,5-Triphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 153° (*J. pr.* [2] 67, 244 *C.* 1903 [1] 1264).
- $C_{22}H_{21}O_2NS$ 1) 3,4-Methylenäther d. 4-[3,4-Dioxybenzyliden]amido-3,4'-Dimethyldiphenylsulfid. HCl (*J. pr.* [2] 68, 288 *C.* 1903 [2] 995).
- $C_{22}H_{22}O_3N_4S_2$ 1) Phenylhydrazid d. α -Phenylthiosulfon- β -Phenylhydrazonbuttersäure. Sm. 134–135° (*J. pr.* [2] 70, 384 *C.* 1904 [2] 1720).
- $C_{22}H_{22}O_4N_2Br_4$ 1) Diacetat d. 1,4-Di[3,5-Dibrom-2-Oxybenzyl]hexahydro-1,4-Diazin. Sm. 199–201° (*A.* 332, 223 *C.* 1904 [2] 203).
- $C_{22}H_{24}O_4N_3S_2$ 1) 4,4'-Di[Diacetyl-amido]-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure. Na₂ (*J. pr.* [2] 66, 570 *C.* 1903 [1] 519).
- $C_{22}H_{24}O_{12}N_2S_2$ 1) Benzol-1,3-Disulfonsäure + 2 Molec. 3-Amido-4-Oxybenzol-1-Carbonsäuremethylester. Sm. 142° u. Zers. (D.R.P. 150 070 *C.* 1904 [1] 975).
- $C_{22}H_{25}O_3N_2J$ 2) Jodmethylat d. Anhydrocotarninbenzylecyanid. Sm. 225–227° (*B.* 37, 3337 *C.* 1904 [2] 1156).
- $C_{22}H_{26}O_4NJ$ 3) Jodmethylat d. Anhydromethylcotarninacetophenon. Sm. 225 bis 226° (*B.* 37, 2748 *C.* 1904 [2] 546).
- $C_{22}H_{28}N_3SP$ 1) Aethylphenylmonamid-Di[4-Methylphenylamid] d. Thiophosphorsäure. Sm. 158° (*A.* 326, 258 *C.* 1903 [1] 869).
- $C_{22}H_{28}O_3NJ$ 2) Jodmethylat d. Methylthebenindimethyläther. Sm. 247° (*B.* 37, 2787 *C.* 1904 [2] 716).
- $C_{22}H_{28}O_4NJ$ 6) Jodmethylat d. Phenanthreno-N-Methyltetrahydropapaverin. Sm. 215° (*B.* 37, 1941 *C.* 1904 [2] 130).

- $C_{22}H_{30}O_3N_2S$ 1) 4-Amido-4'-Sulfomethylamidodi[1-Naphtyl]methan. Sm. 193 bis 195° (D.R.P. 148760 C. 1904 [1] 555).
- $C_{22}H_{34}ON_3P$ 1) Diisobutylmonamid-Di[4-Methylphenylamid] d. Phosphorsäure. Sm. 180° (A. 326, 186 C. 1903 [1] 820).
- $C_{22}H_{34}N_3SP$ 1) Diamylmonamid-Di-[Phenylamid] d. Thiophosphorsäure. Sm. 141° (A. 326, 213 C. 1903 [1] 822).
- $C_{22}H_{41}ON_2P$ 1) Phenyläther d. Di[Diisobutylamido]oxyphosphin. Fl. (A. 326, 168 C. 1903 [1] 762).

— 22 V —

- $C_{22}H_{14}O_6N_6Cl_2S$ 1) 8-Amido-2-[4-Nitrophenyl]azo-7-[2,4-Dichlorphenyl]azo-1-Oxynaphtalin-4-Sulfonsäure (C. 1903 [1] 676).
- $C_{22}H_{21}O_3N_4ClS_2$ 1) Phenylhydrazid d. α -[4-Chlorphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 160—161° u. Zers. (J. pr. [2] 70, 388 C. 1904 [2] 1720).
- $C_{22}H_{21}O_3N_4BrS_2$ 1) Phenylhydrazid d. α -[4-Bromphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 168—169° u. Zers. (J. pr. [2] 70, 389 C. 1904 [2] 1720).
- $C_{22}H_{21}O_3N_4JS_2$ 1) Phenylhydrazid d. α -[4-Jodphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 167—168° u. Zers. (J. pr. [2] 70, 390 C. 1904 [2] 1721).
- $C_{22}H_{23}O_3N_2Br_2J$ 1) Jodmethylat d. isom. Dibromstrychnin. Sm. 243° (Bl. [3] 31, 389 C. 1904 [1] 1280).
- $C_{22}H_{24}O_2N_2BrJ$ 2) Jodmethylat d. isom. Bromstrychnin. Sm. 298° (Bl. [3] 31, 387 C. 1904 [1] 1279).
- $C_{22}H_{25}O_5NBrJ$ 1) Jodmethylat d. Diacetylbrommorphin + $1\frac{1}{2}H_2O$. Sm. 200° (A. 297, 216). — *III, 670.
- $C_{22}H_{28}O_2NBr_2J$ 1) Acetat d. 3,6-Dibrom-4'-Diäthylamido-4-Oxy-2,5-Dimethyldiphenylmethanjodmethylat. Sm. 191—192° (A. 334, 317 C. 1904 [2] 987).
- $C_{22}H_{32}O_3NSP$ 1) Diamylmonamid d. Thiophosphorsäurediphenylester. Sm. 64° (A. 326, 213 C. 1903 [1] 822).

C₂₃-Gruppe.

- $C_{23}H_{18}$ 4) Diphenyl-1-Naphtylmethan. Sm. 150° (149°) (B. 13, 358; B. 37, 617 C. 1904 [1] 811; B. 37, 2756 C. 1904 [2] 707). — I, 299.
- $C_{23}H_{34}$ 1) Kohlenwasserstoff (aus Cholesterylchlorid). Sd. 270—286°₃₇₋₄₀ (M. 24, 663 C. 1903 [2] 1236).

— 23 II —

- $C_{23}H_{14}O_5$ C 74,6 — H 3,8 — O 21,6 — M. G. 370.
- 1) Lakton d. 4-Oxy-7-Benzoxyl-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Sm. 192° u. Zers. (B. 36, 1950 C. 1903 [2] 296).
- $C_{23}H_{16}O_6$ 9) β -[3,4-Dibenzoxylphenyl]akrylsäure. Sm. 204—206° (B. 36, 2935 C. 1903 [2] 888).
- $C_{23}H_{17}Cl$ 2) α -Chlordiphenyl-1-Naphtylmethan. Sm. 169° (B. 37, 1637 C. 1904 [1] 1649).
- $C_{23}H_{18}O$ 4) α -Oxydiphenyl-1-Naphtylmethan. Sm. 135° (Am. 29, 602 C. 1903 [2] 197; B. 37, 627 C. 1904 [1] 810; B. 37, 1638 C. 1904 [1] 1649; B. 37, 2755 C. 1904 [2] 707).
- $C_{23}H_{18}O_4$ 7) 4^{3,5}-Dimethyläther d. chinoiden 7-Oxy-4-[3,5-Dioxyphenyl]-2-Phenyl-1,4-Benzpyran. (HCl + $1\frac{1}{2}H_2O$, (2 HCl, PtCl₄), H₂SO₄ + $1\frac{1}{2}H_2O$, Pikrat (B. 36, 2296 C. 1903 [2] 577).
- $C_{23}H_{18}O_5$ 3) 4^{3,5}-Dimethyläther d. 5-Oxy-2-Phenyl-4-[3,5-Dioxyphenyl]-1,7-Benzpyron + H₂O. Sm. 215—220°. Pikrat (B. 36, 3609 C. 1903 [2] 1381).
- 4) 4^{3,5}-Dimethyläther d. 8-Oxy-2-Phenyl-4-[3,5-Dioxyphenyl]-1,7-Benzpyron. Sm. 225—230°. HCl + H₂O, Pikrat (B. 36, 3607 C. 1903 [2] 1381).

- $C_{23}H_{18}O_{10}$ *1) Tetraacetat d. 3,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron (T. d. Fisetin). Sm. 200—201° (B. 37, 791 C. 1904 [1] 1158).
- *7) Tetraacetat d. 3,5,7-Trioxy-2-[4-Oxyphenyl]-1,4-Benzpyron (T. d. Kämpferol). Sm. 181° (B. 37, 2099 C. 1904 [2] 121).
- *8) Tetraacetat d. Robigenin. Sm. 182—183° (Ar. 242, 223 C. 1904 [1] 1651).
- 9) Tetraacetat d. 3,6-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 197—198° (B. 37, 781 C. 1904 [1] 1156).
- 10) Tetraacetat d. 3,7,8-Trioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 166—167° (B. 37, 2633 C. 1904 [2] 540).
- $C_{23}H_{18}N_4$ 4) α -Phenylazo- α -[2-Naphtyl]hydrazon- α -Phenylmethan. Sm. 150° (C. 1903 [2] 427).
- 5) α -Phenylhydrazon- α -[2-Naphtyl]azo- α -Phenylmethan. Sm. 172° (C. 1903 [2] 427).
- $C_{23}H_{19}N$ 3) γ -Phenylimido- $\alpha\epsilon$ -Diphenyl- $\alpha\delta$ -Pentadiën. Sm. 127° (C. 1903 [1] 399).
- $C_{23}H_{20}O_4$ 6) Dibenzoat d. 4,6-Dioxy-1,2,3-Trimethylbenzol. Sm. 191° (A. 329, 309 C. 1904 [1] 794).
- $C_{23}H_{20}O_5$ 5) 4,5-Dimethyläther d. 4,7-Dioxy-4-[3,5-Dioxyphenyl]-2-Phenyl-1,4-Benzpyran. Sm. 110° (B. 36, 2298 C. 1903 [2] 577).
- $C_{23}H_{20}O_8$ 5) Aloresinotannol (Ar. 241, 356 C. 1903 [2] 726).
- 6) Diaacetat d. Pentaoxybrasandimethyläther. Sm. 254—255° (B. 36, 2201 C. 1903 [2] 381).
- $C_{23}H_{20}O_9$ C 62,7 — H 4,5 — O 32,7 — M. G. 440.
- 1) Tetraacetat d. Butein. Sm. 129—131° (C. 1904 [2] 451).
- $C_{23}H_{20}O_{11}$ 2) Pentamethylester d. Diphenylketon-2,4,6,3',5'-Pentacarbonsäure. Sm. 146—147° (B. 33, 343). — *II, 1231.
- $C_{23}H_{20}N_2$ *6) γ -Phenylhydrazon- $\alpha\epsilon$ -Diphenyl- $\alpha\delta$ -Pentadiën. Sm. 147° (C. 1903 [1] 399).
- 8) γ -Phenylhydrazon- $\alpha\epsilon$ -Diphenyl- $\alpha\delta$ -Pentadiën. Sm. 152—153° (Soc. 85, 1179 C. 1904 [2] 1216).
- $C_{23}H_{20}N_4$ 3) 4,4'-Di[Methylcyanamido]triphenylmethan. Sm. 163° (B. 37, 637 C. 1904 [1] 950).
- $C_{23}H_{21}N$ C 88,7 — H 6,8 — N 4,5 — M. G. 311.
- 1) 2,6-Di[β -4-Methylphenyläthenyl]pyridin. Sm. 202°. HCl + H₂O, (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), HBr + H₂O, Pikrat (B. 36, 1685 C. 1903 [2] 46).
- 2) 1,3,7,9-Tetramethyl-5-Phenylakridin. Sm. 152° (B. 36, 1021 C. 1903 [1] 1268).
- 3) Nitril d. Tri[4-Methylphenyl]essigsäure. Sm. 192° (B. 37, 3157 C. 1904 [2] 1048).
- $C_{23}H_{21}N_3$ C 81,4 — H 6,2 — N 12,4 — M. G. 339.
- 1) 1,3,5-Tri[4-Methylphenyl]-1,2,4-Triazol. Sm. 134° (J. pr. [2] 67, 489 C. 1903 [2] 250).
- 2) 1-[2-Methylphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 137° (J. pr. [2] 67, 485 C. 1903 [2] 250).
- $C_{23}H_{22}O$ *5) $\alpha\alpha\delta$ -Triphenylpentan- $\alpha\delta$ -Oxyd. Sm. 74° (C. 1903 [1] 225).
- $C_{23}H_{22}O_3$ 4) Aethylester d. 4-Keto-6-Phenyl-2-[β -Phenyläthenyl]-1,2,3,4-Tetrahydrobenzol-3-Carbonsäure. Sm. 142° (C. 1903 [2] 944).
- $C_{23}H_{22}O_4$ 2) 4,5-Dimethyläther d. 7-Oxy-4-[3,5-Dioxyphenyl]-2-Phenyl-2,3-Dihydro-1,4-Benzpyran. Sm. 110° (B. 36, 2299 C. 1903 [2] 577).
- 3) Methylester d. 3,3'-Dioxytriphenylessigdimethyläthersäure. Sm. 168° (B. 37, 4037 C. 1904 [2] 1600).
- 4) Aethylester d. 4-Keto-1-Acetyl-2,6-Diphenyl-1,2,3,4-Tetrahydrobenzol-3-Carbonsäure. Sm. 164° (B. 36, 2135 C. 1903 [2] 367).
- $C_{23}H_{22}O_7$ 2) Diaacetat d. Verb. C₁₅H₁₅O₅. Sm. 168° (M. 24, 214 C. 1903 [2] 38).
- $C_{23}H_{22}O_{10}$ 2) Zeorsäure. Sm. 235—236° (A. 327, 345 C. 1904 [2] 509).
- $C_{23}H_{22}N_2$ 6) γ -Phenylhydrazon- $\alpha\epsilon$ -Diphenyl- α -Penten. Sm. 116° (A. 330, 234 C. 1904 [1] 945).
- $C_{23}H_{22}N_4$ 3) 1,3-Di[Benzyliidenamido]-2-Phenyltetrahydroimidazol. Sm. 128° (J. pr. [2] 67, 143 C. 1903 [1] 865).
- 4) 3-[2,4,5-Trimethylphenyl]amido-1,5-Diphenyl-1,2,4-Triazol. Sm. 121—123° (Ann. 32, 365 C. 1904 [2] 1507).
- $C_{23}H_{24}O_3$ 7) Dimethyläther d. 3-Keto-2,4-Di[4-Oxybenzyliden]-1-Methylhexahydrobenzol. Sm. 110° (C. r. 136, 1225 C. 1903 [2] 116).

- $C_{23}H_{24}O_5$ C 72,6 — H 6,3 — O 21,1 — M. G. 380.
1) Aethylester d. β -Diketo- ϵ -Benzoyl- δ -Phenylheptan- γ -Carbonsäure. Sm. 183° (B. 36, 2135 C. 1903 [2] 366).
- $C_{23}H_{24}O_7$ 2) Diacetat d. Anhydrolariciresinol. Sm. 140° (M. 23, 1027 C. 1903 [1] 288).
- $C_{23}H_{24}N_2$ 4) α -[2,4-Dimethylphenyl]imido-4-Dimethylamidodiphenylmethan. Sm. 121° (D.R.P. 41751). — *III, 150.
5) 3-Dimethylamido-9-[4-Dimethylamidophenyl]fluoren. Sm. 149° (C. r. 137, 414 C. 1903 [2] 761).
- $C_{23}H_{26}O_2$ 2) α -Oxydiphenylmethylcampher. Sm. 122,5° (B. 35, 3912 C. 1903 [1] 29; B. 36, 2631 C. 1903 [2] 625).
- $C_{23}H_{26}O_7$ *1) Tetraäthyläther d. Quercetin. Sm. 121° (Ar. 242, 237 C. 1904 [1] 1651).
2) Evernurol. Sm. 196° (J. pr. [2] 68, 22 C. 1903 [2] 511).
3) Tetraäthyläther d. Morin. Sm. 126—128° (Soc. 85, 61 C. 1904 [1] 381, 729).
- $C_{23}H_{26}N_2$ *2) 4,4'-Di[Dimethylamido]triphenylmethan (B. 37, 640 C. 1904 [1] 950).
5) α -Butyl- $\alpha\alpha$ -Di[2-Methyl-3-Indolyl]methan. Sm. 157° (B. 37, 323 C. 1904 [1] 668).
- $C_{23}H_{27}N_3$ *1) 2'-Amido-4,4'-Di[Dimethylamido]triphenylmethan. Sm. 131 bis 133° (B. 36, 2785 C. 1903 [2] 881).
- $C_{23}H_{28}O_8$ 2) Phloraspin. Sm. 211° (A. 329, 338 C. 1904 [1] 801).
- $C_{23}H_{28}N_2$ C 83,1 — H 8,4 — N 8,4 — M. G. 332.
1) ϵ -[2,4,5-Trimethylphenyl]imido- α -[2,4,5-Trimethylphenyl]-amido- $\alpha\gamma$ -Pentadien. Sm. 93° u. Zers. HCl (A. 333, 325 C. 1904 [2] 1149).
- $C_{23}H_{30}O_{11}$ *1) Tetraacetylglyko-o-Oxyphenyläthylcarbinol. Sm. 156° (B. 36, 2581 C. 1903 [2] 621).
*2) isom. Tetraacetylglyko-o-Oxyphenyläthylcarbinol. Sm. 128° (B. 36, 2582 C. 1903 [2] 621).
- $C_{23}H_{32}O_8$ C 77,5 — H 9,0 — O 13,5 — M. G. 356.
1) Acetat d. Cannabinol. Fl. (C. 1903 [2] 199).
- $C_{23}H_{34}O_8$ C 63,0 — H 7,8 — O 29,2 — M. G. 438.
1) Trimethylester d. Ciliansäure. Sm. 123—124° (M. 24, 62 C. 1903 [1] 766).
- $C_{23}H_{36}O_2$ 3) Acetat d. Laktukol (Laktukon). Sm. 184° (C. 1904 [1] 1162; M. 25, 786 C. 1904 [2] 1137).
- $C_{23}H_{36}O_3$ C 76,7 — H 10,0 — O 13,3 — M. G. 360.
1) α -Oxy- $\alpha\alpha$ -Dicamphorylpropan. Sm. 158—160° (B. 36, 2638 C. 1903 [2] 626).
- $C_{23}H_{36}O_4$ C 73,4 — H 9,6 — O 17,0 — M. G. 376.
1) α -Masticinsäure. Sm. 90—91° (Ar. 242, 105 C. 1904 [1] 1010).
2) β -Masticinsäure. Sm. 89,5—90,5° (Ar. 242, 106 C. 1904 [1] 1010).
3) Masticolsäure. Sm. 201°. Ag (Ar. 242, 107 C. 1904 [1] 1010).
- $C_{23}H_{38}O_4$ 2) Acetylcyklogallipharsäure. Sm. 71°. Ag (Ar. 242, 262 C. 1904 [1] 1653).
- $C_{23}H_{38}O_{10}$ C 58,2 — H 8,0 — O 33,8 — M. G. 474.
1) Sapotoxin. Sm. 172° (C. 1904 [2] 119).
- $C_{23}H_{40}O_3$ C 75,8 — H 11,0 — O 13,2 — M. G. 364.
1) Aethylester d. Cyklogallipharsäure. Sm. 37° (Ar. 242, 264 C. 1904 [1] 1654).
- $C_{23}H_{42}O_4$ 2) Aethylester d. Propionylricinolsäure. Sd. 265°₁₃ (B. 36, 787 C. 1903 [1] 824).
3) Propylester d. Acetylricinolsäure. Sd. 260°₁₃ (B. 36, 786 C. 1903 [1] 824).
- $C_{23}H_{44}O_2$ 3) Isoamylester d. Oelsäure. Fl. (C. r. 138, 378 C. 1904 [1] 787).
- $C_{23}H_{46}O_2$ *2) Isoamylester d. Stearinsäure. Sm. 21° (C. r. 138, 379 C. 1904 [1] 787).
- $C_{23}H_{46}N_4$ *1) Amidoguanidinverbindung d. μ -Keto- α -Methyl- α -Heneikosen. Pikrat (B. 36, 2557 C. 1903 [2] 655).

- $C_{23}H_{14}O_7Cl_4$ 1) Trimethyläther d. Tetrachlordioxyfluoresceïn. Sm. 245° (*B. 36*, 1078 *C. 1903* [1] 1182).
- $C_{23}H_{15}O_6N$ 1) Lakton d. α -Oxy- γ -Keto- β -Benzoyl- α -Phenyl- β -[2-Nitrophenyl]-propan- γ -Carbonsäure. Sm. 162° (*A. 333*, 236 *C. 1904* [2] 1390).
- $C_{23}H_{16}O_7N_4$ 1) 1-Benzoylamidonaphthalin + 1,3,5-Trinitrobenzol. Sm. 131–132° (*Soc. 83*, 1340 *C. 1904* [1] 99).
- $C_{23}H_{16}O_7Cl_2$ 1) Trimethyläther d. Dichlordioxyfluoresceïn (*B. 36*, 1081 *C. 1903* [1] 1182).
- $C_{23}H_{17}O_8N$ 9) Benzoat d. 7-Oxy-2-Methyl-4-Phenylchinolin. Sm. 144° (*B. 36*, 2456 *C. 1903* [2] 670).
- $C_{23}H_{17}O_8N_3$ 11) Benzoat d. 4-Amido-1-[4-Oxyphenylazo]naphtalin. Sm. 183–184° (*B. 36*, 4148 *C. 1904* [1] 186).
- $C_{23}H_{17}O_8N_3$ 4) Di[1-Naphtylamid] d. Oximidomalonsäure. Sm. 184°. K (*Soc. 83*, 40 *C. 1903* [1] 73, 442).
- 5) Di[2-Naphtylamid] d. Oximidomalonsäure. Sm. 221° (*Soc. 83*, 41 *C. 1903* [1] 73, 442).
- $C_{23}H_{18}O_8N_2$ 13) 6-Keto-5-Benzoyl-2,4-Diphenyl-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. 241–242° (*Soc. 83*, 722 *C. 1903* [2] 54).
- 14) Di[1-Naphtylamid] d. Malonsäure. Sm. 225° (*Soc. 83*, 40 *C. 1903* [1] 442).
- 15) Di[2-Naphtylamid] d. Malonsäure. Sm. 235° (*Soc. 83*, 41 *C. 1903* [1] 442).
- $C_{23}H_{18}O_8N_2$ 5) 4-Acetylamido-1-[4-Methylphenyl]amido-9,10-Anthrachinon. Sm. 193° (*D.R.P. 148767 C. 1904* [1] 557).
- $C_{23}H_{19}ON_3$ 6) Benzoat d. 4-Oxy-3-Keto-1-Methyl-2,5-Diphenyl-2,3-Dihydropyrazol. Sm. 190° (*B. 36*, 1138 *C. 1903* [1] 1254).
- $C_{23}H_{19}ON_3$ 6) 5-Phenylamido-4-Benzoyl-3-Methyl-1-Phenylpyrazol. Sm. 171° (*B. 36*, 525 *C. 1903* [1] 641).
- $C_{23}H_{19}O_4N$ 4) Oxim d. chinoiden 7-Oxy-4-[3,5-Dioxyphenyl]-2-Phenyl-1,4-Benzopyran-4^{3,5}-Dimethyläther. Sm. 60–65° (*B. 36*, 2300 *C. 1903* [2] 577).
- $C_{23}H_{19}O_8N$ 5) Methyläther d. Dimethylrhodol. HCl (*D.R.P. 122289*). — *III, 578.
- $C_{23}H_{19}N_4Cl$ *1) 3-Nitrobenzylidendivanillin (*B. 36*, 3977 *Ann. C. 1904* [1] 373).
- 1) 5-Chlor-4-[α -Phenylhydrazonbenzyl]-3-Methyl-1-Phenylpyrazol. Sm. 176° (*B. 36*, 526 *C. 1903* [1] 641).
- $C_{23}H_{20}ON_2$ 7) 3,7-Dimethyl-5-[3-Acetylamidophenyl]akridin. Sm. 280° (*B. 36*, 1024 *C. 1903* [1] 1268).
- 8) Verbindung (aus 2-Methylindol u. Furfurol). Sm. 220° (*B. 36*, 4327 *C. 1904* [1] 462).
- $C_{23}H_{20}ON_4$ C 75,0 — H 5,4 — O 4,3 — N 15,2 — M. G. 368.
- 1) α -Oxy-4,4'-Di[Methylecyanamido]triphenylmethan. Sm. 168° (*B. 37*, 641 *C. 1904* [1] 951).
- 2) 5-Keto-4-[4-Dimethylamidophenyl]imido-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. 218,5° (*B. 36*, 1133 *C. 1903* [1] 1253).
- $C_{23}H_{20}O_2N_2$ 11) Phenylamidoformiat d. syn- α -Oxido- α - γ -Diphenyl- β -Buten. Sm. 149–150° (*M. 25*, 437 *C. 1904* [2] 336).
- $C_{23}H_{20}O_3N_2$ 2) Benzoat d. 4-Oxy-3-Acetylphenylhydrazonmethyl-1-Methylbenzol. Sm. 140° (*B. 35*, 4107 *C. 1903* [1] 150).
- $C_{23}H_{20}O_4N_2$ 2) Dimethyläther d. β -Phenylazo- α - γ -Diketo- γ -Phenyl- α -[3,5-Dioxyphenyl]propan. Sm. 108° (*B. 35*, 5904 *C. 1903* [1] 27).
- $C_{23}H_{20}O_4S_2$ 4) 2,5-Diacetat d. 3,6-Dimerkapto-2,5-Dioxy-1-Methylbenzol-3,6-Diphenyläther. Sm. 121–122° (*A. 336*, 161 *C. 1904* [2] 1300).
- $C_{23}H_{20}N_3Cl$ 1) 1-[4-Chlor-2-Methylphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 170° (*J. pr. [2]* 67, 502 *C. 1903* [2] 251).
- $C_{23}H_{21}ON$ 3) d- γ -[β -Oxy- α - β -Diphenyläthyl]imido- α -Phenylpropen. Sm. 189–190° u. Zers. (*B. 36*, 2343 *C. 1903* [2] 410).
- 4) isom. d- γ -[β -Oxy- α - β -Diphenyläthyl]imido- α -Phenylpropen. Sm. 131° (*B. 36*, 2343 *C. 1903* [2] 410).
- 5) l- γ -[β -Oxy- α - β -Diphenyläthyl]imido- α -Phenylpropen. Sm. 189–190° u. Zers. (*B. 36*, 2343 *C. 1903* [2] 410).

- C₂₃H₂₁ON** 6) isom. 1- γ -[β -Oxy- $\alpha\beta$ -Diphenyläthyl]imido- α -Phenylpropen. Sm. 131° (*B.* 36, 2343 *C.* 1903 [2] 410).
 7) γ - γ -[β -Oxy- $\alpha\beta$ -Diphenyläthyl]imido- α -Phenylpropen. Sm. 186° (*B.* 36, 2342 *C.* 1903 [2] 410).
 8) 4-Keto-1,2,6-Triphenylhexahydropyridin. Sm. 220—221° (*Bl.* [3] 31, 985 *C.* 1904 [2] 1151).
- C₂₃H₂₁O₂N** 10) ϵ -Oximido- α -Keto- $\alpha\gamma\epsilon$ -Trimethylpentan. Sm. 144° (*A.* 302, 242). — *III, 237.
- C₂₃H₂₁O₃Cl** 1) Dimethyläther d. γ -Chlor- α -Keto- $\alpha\beta$ -Diphenyl- γ -[3,4-Dioxyphenyl]-propen. Sm. 164° (*B.* 35, 3972 *C.* 1903 [1] 31).
- C₂₃H₂₁O₄N** 3) Trimethyläther d. Phenolphthaleinoxim. Sm. 145—146° (*B.* 36, 2964 *C.* 1903 [2] 1007).
C 67,8 — *H* 5,2 — *O* 23,6 — *N* 3,4 — *M. G.* 407.
- C₂₃H₂₁O₆N** 1) Diacetat d. 2-Keto-5,6-Dioxy-1-[4-Dimethylamidocinnamyliden]-1,2-Dihydrobenzofuran. Sm. 206° (*B.* 37, 827 *C.* 1904 [1] 1152).
- C₂₃H₂₁NBr₄** 1) 2,6-Di[$\alpha\beta$ -Dibrom- β -4-Methylphenyläthyl]pyridin. Sm. 182° (*B.* 36, 1686 *C.* 1903 [2] 47).
- C₂₃H₂₁NS** 1) α -Rhodantri[4-Methylphenyl]methan. Sm. 147—148° (*B.* 37, 3157 *C.* 1904 [2] 1048).
 2) 4-Cinnamylidenamido-3,4'-Dimethyldiphenylsulfid. *HCl* (*J. pr.* [2] 68, 288 *C.* 1903 [2] 995).
- C₂₃H₂₂ON₃** 7) 4-Oximido-1,2,6-Triphenylhexahydropyridin. Sm. 220—221° (*Bl.* [3] 31, 987 *C.* 1904 [2] 1151).
 8) Monophenylhydrazon d. Dimethylphenyl-*m*-Bisecyklohexenon. Sm. 199° (*B.* 36, 2149 *C.* 1903 [2] 369).
 9) *N*-Butyl-*o*-Methylchinophthalin. Sm. 178° (*B.* 36, 3919 *C.* 1904 [1] 98).
- C₂₃H₂₂OCl₂** 1) Dicinnamylidencyklopentanondihydrochlorid (*B.* 36, 1478 *C.* 1903 [1] 1349).
- C₂₃H₂₂OBr₂** 1) Dihydrobromid d. 2-Keto-1,3-Dicinnamyliden-*R*-Pentamethylen (*B.* 36, 3545 *C.* 1903 [2] 1369).
- C₂₃H₂₂OS** 1) Äthyläther d. γ -Keto- α -Merkapto- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 172° (*B.* 37, 505 *C.* 1904 [1] 882).
- C₂₃H₂₂O₂N₂** 17) 4,4'-Di[Acetyl-amido]triphenylmethan. Sm. 234—235°. + C₆H₆ (*C.* 1904 [2] 227; *B.* 37, 2860 *C.* 1904 [2] 776).
- C₂₃H₂₂O₃N₂** 6) α -Oxy-4,4'-Di[Acetyl-amido]triphenylmethan. Sm. 266—267° (*B.* 37, 2860 *C.* 1904 [2] 776).
 7) γ -Phenylhydroxylureido- α -Keto- $\alpha\gamma$ -Diphenylbutan (Phenylharnstoff aus Dypnonhydroxylamin). Sm. 127° (*A.* 330, 230 *C.* 1904 [1] 944).
- C₂₃H₂₂O₃S** 2) α -Keto- γ -Benzylsulfon- $\alpha\gamma$ -Diphenyl- β -Methylpropan. Sm. 152 bis 153° (*B.* 37, 507 *C.* 1904 [1] 883).
 3) γ -Keto- α -Äthylsulfon- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 206—207° (*B.* 37, 505 *C.* 1904 [1] 882).
- C₂₃H₂₃ON** 3) Phenylbenzylamid d. α - β -Phenylisobuttersäure. Sm. 69—70° (*Soc.* 85, 447 *C.* 1904 [1] 1445).
 4) Phenylbenzylamid d. α - β -Phenylisobuttersäure. Sm. 69—70° (*Soc.* 85, 446 *C.* 1904 [1] 1445).
- C₂₃H₂₃O₃N** 4) Äthylester d. α -[Phenyl-2-Oxy-1-Naphtylmethyl]imidopropionsäure. Sm. 165° (*G.* 33 [1] 34 *C.* 1903 [1] 926).
 5) Äthylester d. 5-Acetyl-2-Methyl-4,6-Diphenyl-1,4-Dihydropyridin-3-Carbonsäure. Sm. 174° (*B.* 36, 2188 *C.* 1903 [2] 569).
C 64,9 — *H* 5,4 — *O* 26,4 — *N* 3,3 — *M. G.* 425.
- C₂₃H₂₃O₇N** 1) Triacetylbenzoylpinophrin (*H.* 28, 333). — *III, 667.
- C₂₃H₂₃N₃J** 4) Jodmethylat d. *cis*-1-Methyl-2,4,5-Triphenyl-4,5-Dihydroimidazol. Sm. 247° (*B.* 13, 1420; 18, 3079; *Soc.* 77, 629). — *III, 18.
- C₂₃H₂₄ON₂** 2) 4-Dimethylamido-4'-Methylbenzylamidodiphenylketon. Sm. 136° (*D. R. P.* 72808). — *III, 150.
- C₂₃H₂₄O₂N₂** 3) 3-Dimethylamido-9-Oxy-9-[4-Dimethylamidophenyl]fluoren. Chlorid, Nitrat (*C. r.* 137, 414 *C.* 1903 [2] 761).
- C₂₃H₂₄O₄N₂** 5) Protocatechualdehydblau + H₂O. 3HCl (*B.* 36, 2920 *C.* 1903 [2] 1066).
 2) Strychninbetain. HCl, (2HCl, PtCl₄ + 3H₂O) (*A.* 326, 329 *C.* 1903 [1] 1089).
 3) Protocatechualdehydroth (*B.* 36, 2925 *C.* 1903 [2] 1066).

- $C_{23}H_{24}O_4N_2$ 4) Aethylester d. γ -Keto- α -Phenyl- α -[5-Keto-3-Methyl-1-Phenyl-4,5-Dihydro-4-Pyrazolyl]butan- β -Carbonsäure. Sm. 160° (B. 36, 2127 C. 1903 [2] 365).
- $C_{23}H_{24}O_5S$ 1) $\alpha\gamma$ -Di[4-Methylphenylsulfon]- γ -Oxy- α -Phenylpropan. Sm. 126° u. Zers. (Am. 31, 875 C. 1904 [1] 876).
- $C_{23}H_{24}O_9N_2$ C 58,5 — H 5,1 — O 30,5 — N 5,9 — M. G. 472.
- $C_{23}H_{24}N_2J$ 1) Diäthylester d. β -Keto- $\alpha\alpha$ -Di[4-Nitrobenzyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 118—119° (B. 37, 1993 C. 1904 [2] 26).
- $C_{23}H_{24}N_4S_2$ 2) 4,4'-Di[α -Methylthioureido]triphenylmethan. Sm. 200° (B. 37, 639 C. 1904 [1] 950).
- $C_{23}H_{25}O_5N$ *1) Methyläther d. Diacetylthebenin. Sm. 179° (B. 37, 2787 C. 1904 [2] 716).
- $C_{23}H_{25}O_9N$ 2) Aethylester d. Anhydrocotarninbenzoylessigsäure. Sm. 100—102° (2HCl, PtCl₄) (B. 37, 2747 C. 1904 [2] 545).
- $C_{23}H_{25}N_2J$ *1) Diäthylisocyaninijodid (Aethylroth) (R. 3, 346; B. 37, 2010 C. 1904 [2] 124).
- $C_{23}H_{25}N_2J_3$ 2) Diäthyleyaninijodid (B. 37, 2821 C. 1904 [2] 662).
- $C_{23}H_{25}ON_2$ *3) 1) Diäthyleyanintrijodid (B. 37, 2823 C. 1904 [2] 662).
- $C_{23}H_{25}ON_2$ *3) 2) Diäthylisocyanintrijodid (B. 37, 2018 C. 1904 [2] 125).
- $C_{23}H_{25}ON_2$ *3) 3) Malachitgrün. Oxalat (B. 37, 635 C. 1904 [1] 950; B. 37, 3058 C. 1904 [2] 990; C. r. 139, 676 C. 1904 [2] 1653).
- $C_{23}H_{25}ON_2$ 5) 4-Diäthylamidophenyl-4-Aethylamido-1-Naphtylketon. Sm. 130° (133,5°) (D. R. P. 84555; B. 37, 1903 C. 1904 [2] 115). — *III, 194.
- $C_{23}H_{25}ON_2$ 6) Diäthylisocyaninhydroxyd. Nitrat (B. 37, 2021 C. 1904 [2] 125).
- $C_{23}H_{26}OBr_2$ 1) Dibromid d. γ -Keto- $\alpha\epsilon$ -Di[4-Isopropylphenyl]- $\alpha\delta$ -Pentadien. Sm. 110° (B. 36, 3545 C. 1903 [2] 1369).
- $C_{23}H_{26}OBr_4$ 1) $\alpha\beta\delta\epsilon$ -Tetrabrom- γ -Keto- $\alpha\epsilon$ -Di[4-Isopropylphenyl]pentan. Sm. 189° (B. 36, 3545 C. 1903 [2] 1369).
- $C_{23}H_{26}O_2N_2$ 2) 4,4'-Di[Dimethylamido]-3,4-Dioxytriphenylmethan. Sm. 164° (B. 36, 2917 C. 1903 [2] 1065; B. 37, 3332 C. 1904 [2] 1050).
- $C_{23}H_{26}O_4N_2$ *2) 3) Brucein. Nitroprussidwasserstoffsalt + 5H₂O (C. 1903 [2] 385).
- $C_{23}H_{26}O_4N_2$ 8) 4,4'-Di[Dimethylamido]-3,4,2',2''-Tetraoxytriphenylmethan. Sm. 213° (B. 36, 2919 C. 1903 [2] 1065).
- $C_{23}H_{26}O_5N_4$ 2) *p*-Dinitro-3,3'-Di[1-Piperidyl]diphenylketon. Sm. 190° (B. 37, 3485 C. 1904 [2] 1131).
- $C_{23}H_{26}O_6N_2$ C 60,3 — H 5,7 — O 27,9 — N 6,1 — M. G. 458.
- $C_{23}H_{26}N_2S$ 1) Dimethylester d. Methylendi[Phenylamidoessigsäure-N-Carbonsäure]. Sm. 142—143° (C. 1903 [2] 835).
- $C_{23}H_{26}N_2S$ 1) α -Merkapto-4,4'-Di[Dimethylamido]triphenylmethan. Oxalat (B. 37, 3060 C. 1904 [2] 990).
- $C_{23}H_{27}ON_3$ 6) α -Oxy-2-Amido-4,4''-Di[Dimethylamido]triphenylmethan. Sm. 160° u. Zers. (B. 36, 2786 C. 1903 [2] 881).
- $C_{23}H_{27}ON_3$ 7) Methyläther d. α -Oxytri[4-Amido-3-Methylphenyl]methan. Sm. 178° (B. 37, 2875 C. 1904 [2] 778).
- $C_{23}H_{27}ON_5$ 8) 5-Dipropylamido-4-Benzoyl-3-Methyl-1-Phenylpyrazol (B. 36, 526 C. 1903 [1] 641).
- $C_{23}H_{27}ON_5$ C 70,9 — H 6,9 — O 4,1 — N 18,0 — M. G. 389.
- $C_{23}H_{27}O_3N$ 1) 4-Acetylamidophenyl-di[4,6-Diamido-3-Methylphenyl]methan. Sm. 205° (C. 1903 [1] 884).
- $C_{23}H_{27}O_3N$ 2) Diphenylamidoformiat d. Nerol. Sm. 73—75° (52—53°) (J. pr. [2] 66, 502 C. 1903 [1] 517; C. 1903 [2] 877). — *III, 350.
- $C_{23}H_{27}O_6N$ 4) Propylester d. Acetylmorphinkohlensäure. Sm. 120° (D. R. P. 106718). — *III, 670.
- $C_{23}H_{27}O_8N$ *1) Narcein (C. 1903 [2] 1011).
- $C_{23}H_{29}N_2Br$ 1) 2,4,5-Trimethylbromphenylat d. 2-[2,4,5-Trimethylphenyl]amido-1,2-Dihydropyridin. Sm. 158° (J. pr. [2] 69, 125 C. 1904 [1] 815).
- $C_{23}H_{30}O_9N_2$ 2) Piperidocidid. Sm. 118°. 2HCl (B. 36, 1572 C. 1903 [2] 54).
- $C_{23}H_{30}O_5S_2$ 2) γ -Keto- $\alpha\epsilon$ -Diäthylsulfon- $\alpha\epsilon$ -Diphenyl- $\beta\delta$ -Dimethylpentan (B. 37, 509 C. 1904 [1] 884).

- $C_{23}H_{30}O_7S_2$ 1) Dicuminyldenacetonbishydrosulfonsäure. $K_2 + 3H_2O$ (*B.* 37, 4056 *C.* 1904 [2] 1649).
 $C_{23}H_{31}O_9N_7$ C 50,3 — H 5,6 — O 26,2 — N 17,9 — M. G. 549.
 $C_{23}H_{33}O_7N$ 1) Aethylester d. Benzoylhexa[Amidoacetyl]amidoessigsäure. Sm. 274—277° (*J. pr.* [2] 70, 101 *C.* 1904 [2] 1035).
 C 63,5 — H 7,6 — O 25,7 — N 3,2 — M. G. 435.
 1) Verbindung (aus Delphocurarin). Sm. 184—185°. (2HCl, PtCl₄, HCl, AuCl₃) (*C.* 1903 [1] 1188). — *III, 656.
 $C_{23}H_4N_2Br_2$ 1) Spartein-o-Xylylenammoniumbromid. Sm. 237° (*Ar.* 242, 520 *C.* 1904 [2] 1413).
 $C_{23}H_{35}O_3Br_3$ 1) Palmitat d. 3,5 - Dibrom - 2 - Oxy - 1 - Brommethylbenzol. Sm. 75° (*A.* 332, 202 *C.* 1904 [2] 211).
 $C_{23}H_{36}O_2Br_2$ 1) Acetat d. Laktukoldibromid (Laktukondibromid) (*C.* 1904 [1] 1162; *M.* 25, 791 *C.* 1904 [2] 1138).
 $C_{23}H_{39}O_3Br_2$ 1) Aethylester d. Dibromcyklogallipharsäure. Sm. 46° (*Ar.* 242, 265 *C.* 1904 [1] 1654).
 $C_{23}H_{39}O_2N$ C 76,4 — H 10,8 — O 8,9 — N 3,9 — M. G. 361.
 1) Phenylamidoformiat d. α -Oxyhexadekan. Sm. 73°; Sd. 310° u. Zers. (*B.* [3] 31, 52 *C.* 1904 [1] 507).
 $C_{23}H_{39}O_{10}N_7$ C 48,2 — H 6,8 — O 27,9 — N 17,1 — M. G. 573.
 1) Pepsinglutinpepton (*H.* 38, 258 *C.* 1903 [2] 210; *H.* 41, 72 *C.* 1904 [1] 958).
 2) Pepton (aus Gelatine) (*H.* 37, 364 *C.* 1903 [1] 364).
 $C_{23}H_{40}ON_2$ C 76,7 — H 11,1 — O 4,4 — N 7,8 — M. G. 360.
 1) α -Aethyl- α - β -Dibornylharnstoff. Sm. 178° (*Soc.* 85, 1192 *C.* 1904 [2] 1125).

— 23 IV —

- $C_{23}H_{14}O_2N_2Br_2$ 1) β -Dibrom-o-Tolyldindigo (D.R.P. 154338 *C.* 1904 [2] 1080).
 $C_{23}H_{15}O_2N_2Br$ 3) β -Brom-o-Tolyldindigo (D.R.P. 154338 *C.* 1904 [2] 1080).
 $C_{23}H_{16}O_3N_2S$ 1) 3,4-Methylenäther d. 4-Keto-2-Phenylimido-3-Phenyl-5-[2-Oxybenzyliden]tetrahydrothiazol. Sm. 160° (*M.* 24, 517 *C.* 1903 [2] 837).
 $C_{23}H_{16}O_3N_2Cl$ 1) β -Chloridi[2-Naphtylamid] d. Oximidomalonsäure. Sm. 202°. K (*Soc.* 83, 42 *C.* 1903 [1] 442).
 $C_{23}H_{18}ON_2S$ 1) 2-Phenylbenzylamido-4-Keto-5-Benzyliden-4,5-Dihydrothiazol (*C.* 1903 [1] 1258).
 $C_{23}H_{18}O_3N_4S$ 1) α -Phenylhydrazon- α -[4-Sulfo-1-Naphtyl]azo- α -Phenylmethan. Na (*C.* 1903 [2] 427).
 $C_{23}H_{18}O_7N_2S_3$ 1) 1-[4-Merkaptophenyl]azo-2-Oxynaphtalin-8-4-Methylphenyläther-3,6-Disulfonsäure (*J. pr.* [2] 68, 275 *C.* 1903 [2] 994).
 $C_{23}H_{21}O_2N_2S$ 1) Aethyläther d. α -Benzoylimido- α -[β -Benzoyl- β -Phenylhydrazido]- α -Merkaptomethan. Sm. 170—171° (*Am.* 29, 79 *C.* 1903 [1] 523).
 $C_{23}H_{22}O_4N_2S$ 2) Verbindung + 2H₂O (aus Lophin u. Methylsulfat). Sm. 115 bis 117° u. Zers. (*B.* 35, 4141 *C.* 1903 [1] 296).
 $C_{23}H_{22}O_6N_2S$ 1) Dioxytetramethylrosaminsulfonsäure + H₂O (*B.* 36, 2927 *C.* 1903 [2] 1066; *B.* 37, 203 *C.* 1904 [1] 664).
 $C_{23}H_{22}N_3JS$ 1) Aethyläther d. 5-Jod-3-Merkapto-1,5-Diphenyl-4-[2-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 245° (*J. pr.* [2] 67, 245 *C.* 1903 [1] 1264).
 2) Aethyläther d. 5-Jod-3-Merkapto-1,5-Diphenyl-4-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 256° (*J. pr.* [2] 67, 245 *C.* 1903 [1] 1264).
 $C_{23}H_{23}ON_5S$ 1) Verbindung (aus d. Chlorid C₁₅H₁₄N₅ClS). Sm. 152° (*J. pr.* [2] 67, 254 *C.* 1903 [1] 1265).
 $C_{23}H_{23}O_2N_5S_2$ 1) Dimethyläther d. Phenylamidothioformyl-di[2-Oxyphenyl]thiodicyandiamin. Sm. 210—211° (*B.* 36, 3325 *C.* 1903 [2] 1169).
 $C_{23}H_{23}O_3N_5S$ 1) Dimethyläther d. Phenylamidoformyl-di[2-Oxyphenyl]thiodicyandiamin. Sm. 185° (*B.* 36, 3324 *C.* 1903 [2] 1169).
 $C_{23}H_{24}O_3N_4S_2$ 1) Phenylhydrazid d. α -[2-Methylphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 145—146° u. Zers. (*J. pr.* [2] 70, 383 *C.* 1904 [2] 1720).

- $C_{23}H_{24}O_3N_4S_2$ 2) Phenylhydrazid d. α -[4-Methylphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 163—164° (*J. pr.* [2] 70, 377 *C.* 1904 [2] 1719).
- $C_{23}H_{24}O_4N_2S$ *1) 3,6-Di[Dimethylamido]-9-Phenylxanthen-9³-Sulfonsäure. Na (*B.* 37, 208 *C.* 1904 [1] 665).
- $C_{28}H_{24}O_4N_4S_2$ 1) Phenylhydrazid d. α -[4-Methoxyphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 135—136° u. Zers. (*J. pr.* [2] 70, 390 *C.* 1904 [2] 1721).
- $C_{23}H_{25}O_4N_3S$ 1) Phenylamid d. α -Phenylsulfon- α -[4-Oxy-5-Isopropyl-2-Methylphenyl]hydrazin- β -Carbonsäure. Zers. bei 125—130° (*A.* 334, 195 *C.* 1904 [2] 835).
- $C_{28}H_{25}O_4N_4Cl$ *1) 4-Chlor-1,3-Dinitrobenzol + Di[4-Dimethylamidophenyl]methan. Sm. 73—74° (*J. pr.* [2] 68, 254 *C.* 1903 [2] 1064).
- $C_{23}H_{26}N_4Cl_2S_2$ 1) Methylenäther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-2-Chlormethylat. Sm. 201° (*A.* 331, 205 *C.* 1904 [1] 1218).
- $C_{23}H_{26}N_4Br_2S_2$ 1) Methylenäther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-2-Brommethylat. Sm. 176° (*A.* 331, 206 *C.* 1904 [1] 1218).
- $C_{23}H_{26}N_4J_2S_2$ 1) Methylenäther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-2-Jodmethylat. Sm. 197° u. Zers. (*A.* 331, 205 *C.* 1904 [1] 1218).
- $C_{23}H_{27}O_3N_2Cl$ 2) Verbindung (aus Chlordimethyläther u. Strychnin). 2 + $PtCl_4$ + $AuCl_3$ (*A.* 334, 54 *C.* 1904 [2] 948).
- $C_{23}H_{28}O_4NJ$ 1) Jodpropylat d. Papaverin (*B.* 37, 3812 *C.* 1904 [2] 1575).
2) Jodisopropylat d. Papaverin. Sm. 93—94° (*B.* 37, 3812 *C.* 1904 [2] 1575).
- $C_{23}H_{28}O_5NJ$ 1) Jodmethylat d. Oxycodindiacetat. Zers. bei 248—255° (*B.* 36, 3070 *C.* 1903 [2] 953).

— 23 V —

- $C_{23}H_{17}O_3N_4ClS$ 1) α -Phenylhydrazon- α -[4-Sulfo-1-Naphtyl]azo- α -[2-Chlorphenyl]methan. K (*C.* 1903 [2] 427).
- $C_{23}H_{25}O_3N_2Br_2J$ 1) Jodäthylat d. isom. Dibromstrychnin. Sm. 251° (*Bl.* [3] 31, 389 *C.* 1904 [1] 1280).
- $C_{23}H_{26}O_3N_2BrJ$ 1) Jodäthylat d. isom. Bromstrychnin. Sm. 272° (*Bl.* [3] 31, 387 *C.* 1904 [1] 1279).

C₂₄-Gruppe.

- $C_{24}H_{18}$ *2) 1,3,5-Triphenylbenzol (*M.* 25, 975 *C.* 1904 [2] 1599).
*3) 4,4'-Diphenylbiphenyl. Sm. 320° (*A.* 332, 51 *C.* 1904 [2] 40).
- $C_{24}H_{20}$ 1) 2-Methyl-1,3,4-Triphenyl-R-Penten. Sm. 162—163° (*Soc.* 83, 372 *C.* 1903 [1] 569).
- $C_{24}H_{24}$ C 92,3 — H 7,7 — M. G. 312.
1) 1-Methyl-2,3,5-Triphenyl-R-Pentamethylen. Sm. 121—122° (*Soc.* 83, 373 *C.* 1903 [1] 569).
2) isom. 1-Methyl-2,3,5-Triphenyl-R-Pentamethylen. Sd. 260—262°₂₈ (*Soc.* 83, 373 *C.* 1903 [1] 569).
C 86,2 — H 13,8 — M. G. 334.
- $C_{24}H_{46}$ 1) Kohlenwasserstoff (aus Petroleum) (*C.* 1904 [1] 409).

— 24 II —

- $C_{24}H_{12}S$ 1) Dinaphtylenthiophen. Sm. 278° (275—276°). Pikrat (*B.* 36, 966 *C.* 1903 [1] 1087; *B.* 36, 1584 *C.* 1903 [2] 46).
- $C_{24}H_{14}O_4$ C 78,7 — H 3,8 — O 17,5 — M. G. 366.
1) Bisnaphtoketocumaran. Sm. 218° u. Zers. (*Soc.* 83, 1130 *C.* 1903 [2] 1060).
- $C_{24}H_{16}N$ C 90,9 — H 4,7 — N 4,4 — M. G. 317.
1) 9,10-Phenanthro-1',2'-Naphtocarbazol. Sm. 220° (*Soc.* 83, 275 *C.* 1903 [1] 588, 883).
2) 9,10-Phenanthro-2',1'-Naphtocarbazol. Sm. 225,5° (*Soc.* 83, 276 *C.* 1903 [1] 589, 883).

- $C_{24}H_{16}O$ C 90,0 — H 5,0 — O 5,0 — M. G. 320.
 1) 1,4-Diphenyl- α -Naphtofuran. Sm. 120—121° (B. 36, 2435 C. 1903 [2] 503).
- $C_{24}H_{16}O_2$ 3) Lakton d. Diphenyl-2-Oxy-1-Naphtylessigsäure. Sm. 183° (B. 37, 672 C. 1904 [1] 953).
 4) Lakton d. Diphenyl-1-Oxy-2-Naphtylessigsäure. Sm. 145—190° u. Zers. (B. 37, 671 C. 1904 [1] 953).
- $C_{24}H_{16}O_3$ *2) Anhydrid d. $\alpha\alpha\delta$ -Triphenyl- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Sm. 218° (B. 37, 2659 C. 1904 [2] 523).
- $C_{24}H_{16}O_5$ C 75,0 — H 4,2 — O 20,8 — M. G. 384.
 1) 7-Oxy-3-Benzoyl-4-Methylen-2-Phenyl-1,4-Benzpyran-2³-Carbonsäure. Sm. 245° (B. 37, 1968 C. 1904 [2] 231).
- $C_{24}H_{16}O_6$ 2) 5,7-Dioxy-3-Benzoyl-4-Methylen-2-Phenyl-1,4-Benzpyran-2³-Carbonsäure. Sm. 263° u. Zers. (B. 37, 1970 C. 1904 [2] 232).
 3) Lakton d. α -Oxy- γ -Keto- β -Benzoyl- β -Phenyl- α -[3,4-Dioxyphenyl]-propan-3,4-Methylenäther- γ -Carbonsäure. Sm. 179° (A. 333, 257 C. 1904 [2] 1391).
 4) isom. Lakton d. α -Oxy- γ -Keto- β -Benzoyl- β -Phenyl- α -[3,4-Dioxyphenyl]propan-3,4-Methylenäther- γ -Carbonsäure. Sm. 172° (A. 333, 257 C. 1904 [2] 1391).
- $C_{24}H_{16}O_6$ 2) α -[3,4-Dibenzoxyphenyl]äthen- $\beta\beta$ -Dicarbonsäure. Sm. 200—201° u. Zers. (B. 36, 2935 C. 1903 [2] 888).
- $C_{24}H_{16}O_2$ 7) α -Oxy- β -Keto- $\alpha\beta$ -Diphenyl- α -[1-Naphtyl]äthan (α -Naphtylbenzoïn). Sm. 132—133° (B. 37, 2760 C. 1904 [2] 707).
 8) 3-Benzoylmethyl-2,5-Diphenylfuran. Sm. 118° (B. 36, 2433 C. 1903 [2] 503).
 9) Benzoat d. 2-Oxy-1-Benzylaphtalin. Sm. 95—97° (G. 33 [2] 491 C. 1904 [1] 656).
 10) Benzoat d. 4-Oxy-1-Benzylaphtalin. Sm. 102—103° (G. 33 [2] 474 C. 1904 [1] 655).
- $C_{24}H_{16}O_8$ 4) cis-1,2,3-Tribenzoyl-R-Trimethylen. Sm. 215° (B. 36, 2429 C. 1903 [2] 502).
 5) trans-1,2,3-Tribenzoyl-R-Trimethylen. Sm. 292° (B. 36, 2431 C. 1903 [2] 502).
 6) Lakton d. δ -Oxy- δ -[4-Methoxyl]- $\alpha\gamma$ -Diphenyl- $\alpha\gamma$ -Butadien- β -Carbonsäure. Sm. 195° (B. 36, 2525 C. 1903 [2] 575; A. 333, 275 C. 1904 [2] 1392).
 7) 2-Oxybenzoat d. 4-Oxy-1-Benzylaphtalin. Sm. 85—86° (G. 33 [2] 476 C. 1904 [1] 655).
- $C_{24}H_{16}O_4$ *1) $\alpha\alpha\delta$ -Triphenyl- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure + $4\frac{1}{2}H_2O$. Sm. 218 bis 219° u. Zers. (wasserfrei). + $2CHCl_3$. Na, + $6\frac{1}{2}H_2O$, Ca + $4H_2O$, Ba + $4H_2O$, Piperidinsalz (B. 37, 2657 C. 1904 [2] 522).
 *6) Chinhydron (aus 2-Phenyl-1,4-Benzochinon). Sm. 177° (B. 37, 880 C. 1904 [1] 1143).
 10) Di[1-Naphtylester] d. Bernsteinsäure. Sm. 163° (B. 35, 4081 C. 1903 [1] 74).
 11) Di[2-Naphtylester] d. Bernsteinsäure. Sm. 155° (B. 35, 4082 C. 1903 [1] 74).
- $C_{24}H_{18}O_5$ *6) Verbindung (aus 1,3-Dioxybenzol) (B. 36, 3051 C. 1903 [2] 1008).
 7) $\alpha\gamma$ -Lakton d. α -Oxy- γ -Keto- β -Benzoyl- β -Phenyl- α -[4-Oxyphenyl]-propan-4-Methyläther- γ -Carbonsäure. Sm. 170° (A. 333, 269 C. 1904 [2] 1392).
- $C_{24}H_{18}O_9$ 4) Tetraacetat d. Tetraoxy- $\beta\beta$ -Phenylennaphtylenoxyd (T. d. Tetraoxybrasan). Sm. 208—209° (B. 36, 2197 C. 1903 [2] 381).
- $C_{24}H_{18}N_2$ *1) 4,4'-Diphenylazobenzol. Sm. 250° (C. 1904 [1] 1491).
- $C_{24}H_{18}N_4$ *2) 4,4'-Di[Phenylazo]biphenyl. Sm. 233,5° (A. 332, 81 C. 1904 [2] 43).
- $C_{24}H_{19}N$ 2) 3-Methyl-2,4,6-Triphenylpyridin. Sm. 141—142°. HCl, Pikrat (Soc. 83, 363 C. 1903 [1] 577, 1129).
- $C_{24}H_{19}N_3$ 3) 3'-Amido-2'-Methyl-9-[4-Amidophenyl]-1,2-Naphtakridin. Sm. 318°. $2HCl$, HNO_3 (C. 1903 [1] 884).
- $C_{24}H_{20}O$ 3) 4-Keto-2,3,5-Triphenyl-1,2,3,4-Tetrahydrobenzol (Triphenyleyklohexenon). Sm. 181—191° u. Zers. (B. 37, 1146 C. 1904 [1] 1266).
 4) isom. Triphenyleyklohexenon. Sm. 136° (B. 37, 1147 C. 1904 [1] 1266).

- $C_{24}H_{20}O_2$ 4) $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenyl- α -[1-Naphtyl]äthan. Sm. 198° (*B.* 37, 2764 *C.* 1904 [2] 708).
- $C_{24}H_{20}O_3$ 5) Methyläther d. 7-Oxy-5-Methyl-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 141—145° (*B.* 35, 1809 *C.* 1902 [2] 118). — *III, 548.
- $C_{24}H_{20}O_3$ 11) Aethyläther d. 6-Oxy-2-Phenyl-3-Benzyliden-2,3-Dihydro-1,4-Benzpyron. Sm. 106° (*B.* 37, 3170 *C.* 1904 [2] 1059).
- $C_{24}H_{20}O_5$ 5) Diäthyläther d. Hydrochinonphtalein. Sm. 164° (*B.* 36, 2960 *C.* 1903 [2] 1006).
- $C_{24}H_{20}O_6$ *5) Tribenzat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 71,5—72° (76°) (*B.* 36, 1573 *C.* 1903 [2] 225; *B.* 36, 4341 *C.* 1904 [1] 434).
- $C_{24}H_{20}O_7$ 8) Dibenzat d. 3,6-Dioxy-2,5-Diäthyl-1,4-Benzochinon. Sm. 201° (*B.* 37, 2356 *C.* 1904 [2] 307).
- $C_{24}H_{20}O_7$ 5) Tetramethyläther d. Phloroglucinphtalein (*B.* 36, 1075 *C.* 1903 [1] 1181).
- $C_{24}H_{20}O_8$ *3) Tetraacetat d. Verb. $C_{16}H_{12}O_4$. Sm. 212—214° (*M.* 25, 887 *C.* 1904 [2] 1313).
- $C_{24}H_{20}O_{11}$ 2) Tetraacetat d. Cocacetin. Sm. 180° (*J. pr.* [2] 66, 410 *C.* 1903 [1] 527).
- $C_{24}H_{20}N_4$ 5) Base (aus Anilinschwarz) (*C.* 1903 [2] 1297).
- $C_{24}H_{20}Pb$ *1) Bleitetraphenyl. Sm. 222—224° (*B.* 37, 1126 *C.* 1904 [1] 1257).
- $C_{24}H_{20}Sn$ *1) Zinntetraphenyl. Sm. 220° (*B.* 37, 321 *C.* 1904 [1] 637; *C.* 1904 [1] 353).
- $C_{24}H_{21}N_3$ *9) 2,4,6-Tri[4-Methylphenyl]-1,3,5-Triazin. Sm. 278° (*Soc.* 85, 263 *C.* 1904 [1] 1005).
- $C_{24}H_{22}O$ 2) γ -Keto- $\beta\gamma$ -Diphenyl- α -[4-Isopropylphenyl]propen. Sm. 103—104° (*B.* 35, 3968 *C.* 1903 [1] 31).
- $C_{24}H_{22}O$ 3) isom. γ -Keto- $\beta\gamma$ -Diphenyl- α -[4-Isopropylphenyl]propen. Sm. 65° (*B.* 35, 3968 *C.* 1903 [1] 31).
- $C_{24}H_{22}O_2$ 4) $\alpha\gamma$ -Dibenzoyl- β -Phenylbutan. Sm. 103,5—104,5° (*Soc.* 83, 362 *C.* 1903 [1] 577, 1129).
- $C_{24}H_{22}O_3$ 2) Acetat d. α -Oxy- γ -Keto- $\alpha\beta\delta$ -Triphenylbutan. Sm. 109—111° (*M.* 24, 723 *C.* 1904 [1] 167).
- $C_{24}H_{22}O_4$ 12) 4-Acetoxy-2,5-Dimethyltriphenylessigsäure. Sm. 230—231° u. Zers. Na (*B.* 37, 667 *C.* 1904 [1] 953).
- $C_{24}H_{22}O_4$ 13) cis- $\alpha\alpha\delta$ -Triphenylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 175° (*B.* 37, 2669 *C.* 1904 [2] 524).
- $C_{24}H_{22}O_4$ 14) trans- $\alpha\alpha\delta$ -Triphenylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 205° (*B.* 37, 2669 *C.* 1904 [2] 524).
- $C_{24}H_{22}O_6$ 2) Verbindung (aus Acenaphtenchinon u. Acetessigsäureäthylester). Sm. 274—275° (*G.* 32 [1] 367 *C.* 1903 [1] 639).
- $C_{24}H_{22}O_9$ *1) Tetraacetat d. Brasilin. Sm. 143—145° (*B.* 36, 3952 *C.* 1904 [1] 170).
- $C_{24}H_{22}O_9$ 2) Diacetat d. Hexaoxybrasantetramethyläther. Sm. 234° (*B.* 36, 2205 *C.* 1903 [2] 382).
- $C_{24}H_{22}N_2$ 10) 4-Phenylhydrazon-3,5-Diphenyl-1,2,3,4-Tetrahydrobenzol. Sm. 181° (*B.* 36, 2134 *C.* 1903 [2] 366).
- $C_{24}H_{23}N_3$ 2) 3,5-Di[4-Methylphenyl]-1-[2,4-Dimethylphenyl]-1,2,4-Triazol. Sm. 168° (*J. pr.* [2] 67, 492 *C.* 1903 [2] 251).
- $C_{24}H_{24}O$ *1) 4-Keto-1,3-Dibenzyliden-5-Isopropyl-2-Methyl-1,2,3,4-Tetrahydrobenzol (Dibenzylidenmenthenon) (*C.* 1903 [2] 1373).
- $C_{24}H_{24}O_2$ 6) 2,3-Dioxy-1-Methyl-2,3,5-Triphenyl-R-Pentamethylen. Sm. 68 bis 80° (*Soc.* 83, 372 *C.* 1903 [1] 569).
- $C_{24}H_{24}O_3$ 2) 4-Oxy-2-Methyl-5-Isopropyltriphenylessigsäure. Sm. 197—198° (*B.* 37, 668 *C.* 1904 [1] 953).
- $C_{24}H_{24}O_3$ 3) 4-Oxy-3-Methyl-6-Isopropyltriphenylessigsäure. Sm. 241° u. Zers. Ag (*B.* 37, 670 *C.* 1904 [1] 953).
- $C_{24}H_{24}O_{12}$ C 57,1 — H 4,8 — O 38,1 — M. G. 504.
- $C_{24}H_{24}O_{12}$ 1) Verbindung (aus Gallacetophenon). K (*Soc.* 83, 131 *C.* 1903 [1] 89, 466).
- $C_{24}H_{26}O$ *3) Aethyläther d. α -Oxytri[4-Methylphenyl]methan. Sm. 114° (*B.* 37, 3157 *C.* 1904 [2] 1048).
- $C_{24}H_{26}O_2$ 2) Benzyläther d. α -Oxybenzylidencampher. Sm. 94—95° (*Soc.* 83, 109 *C.* 1903 [1] 459).
- $C_{24}H_{26}O_5$ 2) Diäthylester d. γ -Benzoylmethyl- α -Phenyl- α -Buten- $\delta\delta$ -Dicarbonsäure. Sm. 92,5—93° (*C.* 1903 [2] 944).

- $C_{24}H_{26}O_9$ 2) Ebernursäure. Sm. 191—192° u. Zers. $K + 2H_2O$ (*J. pr.* [2] 63, 534; *J. pr.* [2] 68, 20 *C. 1903* [2] 511). — *II, 1235.
- $C_{24}H_{26}O_{10}$ 4) Tetraäthylester d. 1,4-Naphtochinon-2,3-Dimalonsäure. Sm. 98° (*B.* 33, 577). — *II, 1230.
- $C_{24}H_{27}N_3$ 6) 1,3,5-Tribenzylhexahydro-1,3,5-Triazin. Sd. 230—240° (*D.R.P.* 139394 *C. 1903* [1] 678).
- $C_{24}H_{26}O_4$ 4) Aethylester d. 1-Benzoylsantonigen Säure. Sm. 75° (*G.* 25 [1] 515). — *II, 978.
- $C_{24}H_{26}O_7$ 2) Dihydroflavaspidsäurexanthen. Sm. 257—259° u. Zers. (*A.* 329, 312, 332 *C. 1904* [1] 798).
- $C_{24}H_{26}O_8$ *2) β -Flavaspidsäure (Polystichocitrin) (*C.* 1898 [2] 1103; *A.* 329, 322 Anm. *C. 1904* [1] 799; *A.* 329, 310 *C. 1904* [1] 798).
- 3) α -Flavaspidsäure. Sm. 92° (*A.* 329, 310 *C. 1904* [1] 798). — *III, 457.
- $C_{24}H_{29}N_3$ *2) 6'-Amido-4²,4³-Di[Dimethylamido]-3'-Methyltriphenylmethan. Sm. 187,5° (*B.* 36, 2782 *C. 1903* [2] 881).
- $C_{24}H_{30}O_4$ 3) Di[2-Methyl-5-Isopropylphenylester] d. Bernsteinsäure. Sm. 37°; Sd. 264—268° (*B.* 35, 4081 *C. 1903* [1] 74).
- 4) Di[3-Methyl-6-Isopropylphenylester] d. Bernsteinsäure. Sm. 63°; Sd. oberh. 360° (*B.* 35, 4081 *C. 1903* [1] 74).
- $C_{24}H_{30}O_7$ 2) Pikroglobularin. Sm. 100° u. Zers. (*Ar.* 241, 295 *C. 1903* [2] 515).
- $C_{24}H_{30}O_{15}$ 4) Anhydrid (aus d. Säure $C_{12}H_{16}O_8$). $Ca_3 + 2H_2O$, Ag_8 (*M.* 24, 186 *C. 1903* [2] 20).
- $C_{24}H_{34}O_8$ 4) Isobiliansäure + H_2O . Sm. 244—245° (*M.* 24, 53 *C. 1903* [1] 765).
- $C_{24}H_{36}O_2$ 3) Verbindung (aus *Asclepias syriaca* L.). Sm. 82—83° (*J. pr.* [2] 68, 409 *C. 1904* [1] 105).
- $C_{24}H_{36}O_4$ *1) Dehydrocholeinsäure. Sm. 183—184° (*M.* 24, 29 *C. 1903* [1] 764).
- $C_{24}H_{36}O_7$ *2) Cholansäure. Sm. 294—295° (*M.* 24, 30 *C. 1903* [1] 764).
- $C_{24}H_{38}O$ *C.* 84,2 — H 11,1 — O 4,7 — M. G. 342.
- $C_{24}H_{38}O_4$ 4) Alstol. Sm. 162° (*B.* 37, 4110 *C. 1904* [2] 1656).
- 4) i-Dibornylester d. Bernsteinsäure. Sm. 82° (*C. r.* 132, 1574). — *III, 339.
- $C_{24}H_{38}O_9$ *C.* 61,3 — H 8,1 — O 30,6 — M. G. 470.
- 1) Dioscin + $3H_2O$. Sm. 247—250° (*C. 1904* [2] 118).
- $C_{24}H_{38}O_{12}$ *C.* 55,6 — H 7,3 — O 37,1 — M. G. 518.
- 1) Hexaäthylester d. Hexan- $\alpha\gamma\delta\delta\zeta$ -Hexacarbonsäure (*Soc.* 85, 614 *C. 1904* [1] 1254, 1553).
- $C_{24}H_{40}O$ 4) Verbindung (aus *Asclepias syriaca* L.). Sm. 108—110° (*J. pr.* [2] 68, 399 *C. 1904* [1] 105).
- 5) Verbindung (aus *Asclepias syriaca* L.). Sm. 145—146° (*J. pr.* [2] 68, 411 *C. 1904* [1] 105).
- $C_{24}H_{40}O_2$ 7) Verbindung (aus *Asclepias syriaca* L.) (*J. pr.* [2] 68, 405 *C. 1904* [1] 105).
- $C_{24}H_{40}O_4$ *1) Desoxycholsäure. Sm. 172—173°. Ba, + Essigsäure (*M.* 24, 23 *C. 1903* [1] 764).
- $C_{24}H_{40}O_5$ *1) Cholsäure. + C_2H_5O . Sm. 197° (*C. 1903* [2] 727; *M.* 24, 32 *C. 1903* [1] 764).
- $C_{24}H_{40}O_{21}$ *C.* 43,4 — H 6,0 — O 50,6 — M. G. 664.
- 1) Oxycellulose (*C. r.* 136, 898 *C. 1903* [1] 1081).
- $C_{24}H_{45}O_{11}$ *5) Manneotetrose (*C. r.* 136, 1569 *C. 1903* [2] 347).
- $C_{24}H_{44}O_2$ *C.* 79,1 — H 12,1 — O 8,8 — M. G. 364.
- 1) Aethylester d. Behenolsäure. Sm. 15—16° (*B.* 36, 3602 *C. 1903* [2] 1314).
- $C_{24}H_{44}O_4$ 2) Acetylphellonsäure. Sm. 80° (*M.* 25, 283 *C. 1904* [1] 1573).
- 3) Propylester d. Propionylricinolsäure. Sd. 310—320°₆₄₅ (*B.* 36, 788 *C. 1903* [1] 824).
- 4) Isobutylester d. Acetylricinolsäure. Sd. 255—260°₁₃ (*B.* 36, 786 *C. 1903* [1] 824).
- $C_{24}H_{44}N_2$ 3) 1,3-Di[Diisobutylamidomethyl]benzol. Fl. (2HCl, HgCl₂), (2HCl, PtCl₄), 2Pikrat (*B.* 36, 1675 *C. 1903* [2] 29).
- $C_{24}H_{46}O_3$ 3) Aethylester d. Phellonsäure. Sm. 66° (*M.* 25, 294 *C. 1904* [1] 1573).
- 4) Aethylester d. Isophellonsäure. Sm. 53° (*M.* 25, 294 *C. 1904* [1] 1573).

- $C_{24}H_{47}N_3$ C 76,4 — H 12,5 — N 11,1 — M. G. 377.
1) 2,5-Diundekyl-1,3,4-Triazol. Sm. 89° (*J. pr.* [2] 69, 505 *C.* 1904 [2] 601).
- $C_{24}H_{46}N_4$ C 73,4 — H 12,2 — N 14,3 — M. G. 392.
1) 3,6-Diundekyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 142° (*J. pr.* [2] 69, 505 *C.* 1904 [2] 601).
- 24 III —
- $C_{24}H_{10}Br_2S$ 1) $\alpha\alpha$ -Dibromdinaphtylenthiofen. Sm. 362—363° (*B.* 36, 3770 *C.* 1903 [2] 1445).
- $C_{24}H_{11}BrS$ 1) α -Bromdinaphtylenthiofen. Sm. 202° (*B.* 36, 3769 *C.* 1903 [2] 1445).
- $C_{24}H_{12}O_3Cl_4$ 1) Verbindung (aus 3,3'-Dichlor-4,4'-Diamidobiphenyl). + Essigsäureanhydrid (*Soc.* 83, 690 *C.* 1903 [2] 38).
- $C_{24}H_{12}O_2B$ 1) Gem. Anhydrid d. Benzol-1,2-Dicarbonsäure u. Borsäure. Sm. 165° (*B.* 36, 2224 *C.* 1903 [2] 421).
- $C_{24}H_{14}O_2N_2$ *) 1) 1-Naphtalinindigo (D. R. P. 153 418 *C.* 1904 [2] 679).
*) 2) 2-Naphtalinindigo (D. R. P. 153 418 *C.* 1904 [2] 679).
- $C_{24}H_{14}O_3N_2$ C 76,2 — H 3,7 — O 12,7 — N 7,4 — M. G. 378.
1) 1-[2-Oxy-1-Naphtylazo]-9,10-Anthrachinon (*B.* 37, 4186 *C.* 1904 [2] 1742).
2) 2-[1-Oxy-2-Naphtylazo]-9,10-Anthrachinon. Sm. 262—264° (*C.* 1904 [1] 289).
3) 2-[4-Oxy-1-Naphtylazo]-9,10-Anthrachinon. Sm. 278° (*C.* 1904 [1] 289).
- $C_{24}H_{14}O_4S_2$ 1) Verbindung (aus Thiophenochinon). Sm. 96° (*A.* 336, 131 *C.* 1904 [2] 1298).
- $C_{24}H_{16}O_2Br$ 1) Laktone d. β -Bromdiphenyl-2-Oxy-1-Naphtylessigsäure. Sm. 162 bis 164° (*B.* 37, 673 *C.* 1904 [1] 954).
2) Laktone d. β -Bromdiphenyl-1-Oxy-2-Naphtylessigsäure. Sm. 205° (*B.* 37, 671 *C.* 1904 [1] 953).
- $C_{24}H_{16}O_4N$ C 75,6 — H 3,9 — O 16,8 — N 3,7 — M. G. 381.
1) Laktone d. β -Nitrodiphenyl-1-Oxy-2-Naphtylessigsäure. Sm. 241° (*B.* 37, 672 *C.* 1904 [1] 953).
- $C_{24}H_{16}ON_2$ 2) 2-Oxy-1-[9-Phenanthrylazo]naphtalin. Sm. 240° (*B.* 36, 2518 *C.* 1903 [2] 507).
- $C_{24}H_{16}O_2S_8$ 1) Triphenyläther d. 2,3,5-Trimerkapto-1,4-Benzochinon. Sm. 169° (*A.* 336, 142 *C.* 1904 [2] 1299).
- $C_{24}H_{16}O_7Cl_4$ 1) Tetramethyläther d. Tetrachlordioxyfluorescein. Sm. 175° (*B.* 36, 1079 *C.* 1903 [1] 1182).
- $C_{24}H_{17}ON_3$ 8) Monophenylhydrazon d. Chinophthalon. Sm. 206° (*B.* 37, 3019 *C.* 1904 [2] 1410).
9) Verbindung (aus Chinolylacetophenon-2-Carbonsäure). Sm. 102—105° (*B.* 37, 3012 *C.* 1904 [2] 1409).
- $C_{24}H_{17}O_3N_3$ 8) Indophenol (aus 4,4'-Di[4-Oxyphenylamido]diphenylamin) (D. R. P. 153 130 *C.* 1904 [2] 799).
C 72,9 — H 4,3 — O 12,1 — N 10,6 — M. G. 395.
- $C_{24}H_{17}O_3N_5$ 1) Phenylamid d. 4-Benzoxyl-1-Naphtylazoameisensäure. Sm. 230° u. Zers. (*A.* 334, 198 *C.* 1904 [2] 835).
- $C_{24}H_{17}O_4N_5$ 2) 4-Phtalidyl-3-Methyl-5-Phenyl-1-[4-Nitrophenyl]pyrazol. Sm. 169° (*B.* 37, 586 *C.* 1904 [1] 940).
- $C_{24}H_{17}O_5N$ C 72,2 — H 4,3 — O 20,1 — N 3,5 — M. G. 399.
1) Dimethylenäther d. γ -Keto- γ -[4-(3,4-Dioxybenzyliden)amidophenyl]- α -[3,4-Dioxyphenyl]propen. Sm. 189° (*B.* 37, 393 *C.* 1904 [1] 657).
- $C_{24}H_{17}O_{12}N_8$ C 53,4 — H 3,1 — O 35,6 — N 7,8 — M. G. 539.
1) Tri[4-Nitrobenzoat] d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 192° (*A.* 335, 284 *C.* 1904 [2] 1285).
- $C_{24}H_{17}N_3S_3$ 1) Farbstoff (aus Phenazthioniumchlorid u. 2,2'-Diamidodiphenyldisulfid) (*C.* 1904 [2] 1175).
- $C_{24}H_{17}N_4Br$ 1) 3-Brom-7,8-Di[Phenylhydrazon]naphtacen. Sm. 134° (*A.* 327, 89 *C.* 1903 [1] 1228).

- $C_{24}H_{15}ON_2$ 8) 4,5-Benzoylmethylen-3,6-Diphenyl-4,5-Dihydro-1,2-Diazin. Sm. 235° (*B.* 36, 2432 *C.* 1903 [2] 503).
- $C_{24}H_{18}ON_4$ 4) 6-Benzoyl-3-Methyl-1,4-Diphenylbipyrazol. Sm. 166° (*B.* 36, 528 *C.* 1903 [1] 642).
- $C_{24}H_{15}O_2N_2$ 16) 1,2-Di[Benzoylamido]naphtalin. Sm. 130° (*Soc.* 83, 1192 *C.* 1903 [2] 1444).
- $C_{24}H_{18}O_3N_4$ *1) 4,4'-Di[4-Oxyphenylazo]biphenyl (*B.* 36, 2973 *C.* 1903 [2] 1031).
- $C_{24}H_{18}O_5S_3$ 1) 2,3,5-Triphenyläther d. 2,3,5-Trimerkapto-1,4-Dioxybenzol. Sm. 111,5—112,5° (*A.* 336, 140 *C.* 1904 [2] 1299).
- $C_{24}H_{19}ON_3$ *1) 2,5-Di[Phenylamido]-4-Phenylimido-1-Keto-1,4-Dihydrobenzol. Sm. 202—203° (*Am.* 30, 534 *C.* 1904 [1] 366).
- $C_{24}H_{19}O_2N$ 7) 2-Oxy-1-[α -2-Oxybenzylidenamidobenzyl] naphtalin. Sm. 174° (*G.* 33 [1] 32 *C.* 1903 [1] 926).
- 8) 2-Oxy-1-[α -Benzoylamidobenzyl]naphtalin. Sm. 225° (*G.* 33 [1] 8 *C.* 1903 [1] 925).
- $C_{24}H_{19}O_3N$ 3) 1,3-Di[2-Oxyphenyl]-1,3-Dihydro-4,2- β -Naptisoxazin. Sm. 162° (*G.* 33 [1] 15 *C.* 1903 [1] 925).
- $C_{24}H_{19}O_4N_3$ 2) 3-Methyl-4-Benzyl-5-Phenyl-1-[4-Nitrophenyl]pyrazol-4²-Carbon-säure. Sm. 219° (*B.* 37, 587 *C.* 1904 [1] 940).
- $C_{24}H_{19}O_5N$ 3) Diacetat d. 1-Keto-2,3-Di[4-Oxyphenyl]-1,3-Dihydroisindol. Sm. 205—208° (*M.* 17, 437). — *II, 1156.
- $C_{24}H_{19}O_5N_3$ 1) 4-Nitro-1,2,3-Trioxybenzol + 2 Molec. Chinolin. Sm. 74° (*B.* 37, 116 *C.* 1904 [1] 585).
- $C_{24}H_{20}ON_2$ 13) 5-Keto-3-Methyl-4-Benzyliden-1-Diphenylmethyl-4,5-Dihydro-pyrazol. Sm. 176° (*J. pr.* [2] 67, 175 *C.* 1903 [1] 874).
- $C_{24}H_{20}O_2N_4$ 8) Aethylster d. 4-Phenylazo-1,5-Diphenylpyrazol-3-Carbonsäure. Sm. 148—149° (*B.* 37, 2205 *C.* 1904 [2] 323).
- $C_{24}H_{20}O_4N_2$ *2) 1-Naphtylamid d. d-Weinsäure. Sm. 213—214° (*Soc.* 83, 1359 *C.* 1904 [1] 84).
- *3) 2-Naphtylamid d. d-Weinsäure. Sm. 279° (*Soc.* 83, 1359 *C.* 1904 [1] 84).
- 5) Dimethyläther d. 4,4'-Di[Furylamido]-3,3'-Dioxybiphenyl. Sm. 181—182° (*B.* 30, 2015). — *III, 513.
- $C_{24}H_{20}O_5Si$ *1) Tetraphenylkieselsäure (D.R.P. 140102 *C.* 1903 [1] 799).
- $C_{24}H_{21}ON$ 7) γ -Keto- γ -[4-p-Methylbenzylidenamidophenyl]- α -[4-Methylphenyl]-propen. Sm. 188° (*B.* 37, 393 *C.* 1904 [1] 657).
- $C_{24}H_{21}ON_5$ 7) Cinnamylidenhydrazid d. 6-Cinnamylidenhydrazidopyridin-3-Carbonsäure. Sm. 265° (*B.* 36, 1113 *C.* 1903 [1] 1184).
- $C_{24}H_{21}O_2N_3$ *3) 4,4'-Di[4-Oxyphenylamido]diphenylamin. Sm. 208° (D.R.P. 153130 *C.* 1904 [2] 799).
- $C_{24}H_{21}O_3N$ 4) Dimethyläther d. γ -Keto- γ -[4-(4-Oxybenzyliden)amidophenyl]- α -[4-Oxyphenyl]propen. Sm. 191° (*B.* 37, 394 *C.* 1904 [1] 657).
- $C_{24}H_{21}O_3N_8$ 7) Benzoyl- γ -Phenylsemicarbazol- α -[2-Oxyphenyl]- α -Buten. Sm. 204 bis 205° (*B.* 37, 3185 *C.* 1904 [2] 991).
- 8) Trimethyläther d. 2,4,6-Tri[4-Oxyphenyl]-1,3,5-Triazin. Sm. 217° (*Soc.* 85, 264 *C.* 1904 [1] 1005).
- $C_{24}H_{21}O_4N$ 2) Diäthylrhodol (D.R.P. 116415). — *III, 578.
- $C_{24}H_{21}O_4N_8$ C 69,4 — H 5,1 — O 15,4 — N 10,1 — M.G. 415.
- 1) Di[Methylphenylamid] d. Benzoximidomalonsäure. Sm. 157—158° (*Soc.* 83, 43 *C.* 1903 [1] 443).
- $C_{24}H_{22}ON_2$ 4) N-Butyl- α' -Phenylpyrophtalin. Sm. 168°. (2HCl, PtCl₂) (*B.* 36, 3923 *C.* 1904 [1] 98).
- $C_{24}H_{22}ON_4$ 3) 5-Keto-4-[4-Methylphenyl]hydrazon-3-Methyl-1-Diphenylmethyl-4,5-Dihydropyrazol. Sm. 162—163° (*J. pr.* [2] 67, 175 *C.* 1903 [1] 874).
- $C_{24}H_{22}O_3N_2$ 9) γ -[α -Imidobenzyl]amido- γ -Oxy- β -Acetyl- $\alpha\gamma$ -Diphenylpropen. Sm. 132° (*Soc.* 83, 1376 *C.* 1904 [1] 164, 450).
- $C_{24}H_{22}O_4N_2$ 5) s-Tetramethylrhodamin (D.R.P. 44002, 56293, 116415). — *III, 575.
- $C_{24}H_{22}O_5S$ 1) γ -[4-Methylphenyl]sulfon- ϵ -Keto- $\alpha\epsilon$ -Diphenyl- α -Penten. Sm. 145° (*Am.* 31, 184 *C.* 1904 [1] 877).
- 2) ϵ -[4-Methylphenyl]sulfon- γ -Keto- $\alpha\epsilon$ -Diphenyl- α -Penten. Sm. 189° (*Am.* 31, 180 *C.* 1904 [1] 876). — *III, 186.
- $C_{24}H_{22}O_4N_2$ 5) Methylenäther d. 2,6-Di[Benzoylamido]-3,4-Dioxy-1-Propylbenzol. Sm. 248° (*Ar.* 242, 91 *C.* 1904 [1] 1007).

- $C_{24}H_{22}O_4S_2$ 2) 1,4-Diacetat d. 2,5-Dimerkapto-1,4-Dioxybenzol-2,5-Dibenzyl-äther. Sm. 203—205° (A. 336, 154 C. 1904 [2] 1300).
- $C_{24}H_{22}O_5N_2$ 4) d-Uninsäureoximanilid. Sm. 222—230° (A. 310, 259). — *II, 1204.
- $C_{24}H_{22}O_{10}N_4$ 4) β -Methyl- α -Phenylhydrazid d. α -Benzoximido- β -Phenylhydrazon-buttersäure. Sm. 179° (A. 328, 70 C. 1903 [2] 249).
- 1) 4,4-Biphenyldihydrazon d. Oxallessigsäuredimethylester (Bl. [3] 31, 89 C. 1904 [1] 580).
- $C_{24}H_{23}OCl$ 1) γ -Chlor- α -Keto- α - β -Diphenyl- γ -[4-Methylphenyl]propan. Sm. 142 bis 143° (B. 35, 3967 C. 1903 [1] 31).
- $C_{24}H_{23}O_3N_5$ 3) β -Methyl- α -Phenylhydrazid d. α -Benzoximido- β -Phenylhydrazon-buttersäure. Sm. 179° (A. 328, 70 C. 1903 [2] 249).
- $C_{24}H_{23}O_4N_3$ 3) Lakton d. α -Oxy-3'-Nitro-4',4'-Di[Dimethylamido]triphenylmethan-2'-Carbonsäure. Sm. 175° (C. r. 132, 748). — *II, 1020.
- $C_{24}H_{23}O_5N_3$ C 66,5 — H 5,3 — O 18,5 — N 9,7 — M. G. 433.
- 1) Phenylhydrazon d. Aldehyd $C_{18}H_{17}O_6N$ (aus Bebeerin). Sm. 166° (Ar. 236, 539). — *III, 621.
- $C_{24}H_{23}N_4P$ 1) Tri[Phenylamido]phosphinphenylimid. Sm. 232°. HCl, HNO_3 , H_2SO_4 (Am. 19, 357; 27, 444; C. r. 136, 1666 C. 1903 [2] 427). — *II, 164.
- $C_{24}H_{24}OS_3$ 1) Dipropyläther d. 3,5-Dimerkapto-4-Thiocarbonyl-1-Keto-2,6-Diphenyl-1,4-Dihydrobenzol. Sm. 88° (B. 37, 1607 C. 1904 [1] 1444).
- $C_{24}H_{24}O_2N_2$ 15) α - γ -Di[α -Oxidobenzyl]- β -Phenylbutan. Sm. 204—205° (Soc. 83, 363 C. 1903 [1] 577, 1129).
- $C_{24}H_{24}O_3N_4$ *4) Tri[Benzoylamidomethyl]amin (C. 1903 [2] 656).
- $C_{24}H_{24}O_4N_2$ *1) Dibenzoat d. β -[3,5-Dioximido-4-Methylhexahydrophenyl]propen. Sm. 129° (A. 330, 274 C. 1904 [1] 948).
- 3) Dibenzoat d. α -d-Campherdioxim. Sm. 153° (Soc. 85, 910 C. 1904 [2] 597).
- 4) Dibenzoat d. β -d-Campherdioxim. Sm. 191° (Soc. 85, 910 C. 1904 [2] 598).
- 5) isom. Dibenzoat d. β -d-Campherdioxim. Sm. 134° (Soc. 85, 911 C. 1904 [2] 598).
- 6) Dibenzoat d. γ -d-Campherdioxim. Sm. 138° (Soc. 85, 912 C. 1904 [2] 598).
- 7) Di[Phenylamidoformiat] d. γ -Oxy- α -[2-Oxyphenyl]butan. Sm. 107,5° (B. 36, 2872 C. 1903 [2] 833).
- $C_{24}H_{24}O_4N_4$ 5) Acetophenonazobilirubin (H. 29, 411). — *III, 487.
- $C_{24}H_{24}O_5S_2$ 2) ϵ -Keto- α - γ -Diphenylsulfon- α -Phenylhexan. Sm. 107—109° (B. 37, 510 C. 1904 [1] 884).
- $C_{24}H_{24}O_6N_2$ C 66,1 — H 5,5 — O 22,0 — N 6,4 — M. G. 436.
- 1) Diäthylester d. γ -Diimido- α - ζ -Diketohehexan- β - ϵ -Dicarbonsäure. Sm. 156,5° (A. 332, 154 C. 1904 [2] 192).
- $C_{24}H_{25}ON$ 4) α -Acetylamidotri[4-Methylphenyl]methan. Sm. 211° (B. 37, 3159 C. 1904 [2] 1048).
- $C_{24}H_{25}O_2N$ 4) Acetyltri[4-Methylphenyl]methylhydroxylamin. Sm. 157° (B. 37, 3161 C. 1904 [2] 1049).
- 5) Benzoylderivat d. Base $C_{17}H_{21}ON$. Sm. 99—100° (Soc. 83, 107 C. 1903 [1] 233, 458).
- $C_{24}H_{26}O_2N_2$ 6) 3,4-Methylenäther d. 4',4''-Di[Dimethylamido]-3,4-Dioxytriphenylmethan. Sm. 110—112° (B. 36, 2919 C. 1903 [2] 1065).
- $C_{24}H_{26}O_2N_6$ C 67,0 — H 6,0 — O 7,4 — N 19,5 — M. G. 430.
- 1) 1,4-Di[β -Phenylsemicarbazol]-5-Isopropyl-2-Methyl-1,4-Dihydrobenzol. Zers. bei 242° (A. 334, 194 C. 1904 [2] 835).
- $C_{24}H_{26}O_4N_2$ 3) 3,4-Methylenäther d. 4',4''-Di[Dimethylamido]-3,4,2',2''-Tetraoxytriphenylmethan. Sm. 115° (B. 36, 2920 C. 1903 [2] 1065).
- 4) Dibenzoat d. 1-Oxamidocarboxim. Sm. 168° (A. 330, 373 C. 1904 [1] 948).
- $C_{24}H_{26}O_7N_2$ C 63,4 — H 5,7 — O 24,7 — N 6,2 — M. G. 454.
- 1) Triäthylester d. 1-[5-Isoxazolyl]-4-[2,5-Dimethyl-1-Pyrrolyl]-benzol-1³,4³,4'-Tricarbonsäure. Sm. 189° (B. 36, 396 C. 1903 [1] 723; B. 36, 2696 C. 1903 [2] 952).
- $C_{24}H_{27}O_3N_3$ 2) trimolek. Anhydroformaldehyd-4-Anisidin. Sm. 132° (B. 36, 48 C. 1903 [1] 505).
- $C_{24}H_{27}O_6N_7$ C 56,6 — H 5,3 — O 18,9 — N 19,2 — M. G. 509.
- 1) Benzylidenhydrazid d. Benzoyltetra[Amidoacetyl]amidoessigsäure. Sm. 275° (B. 37, 1300 C. 1904 [1] 1337).

- $C_{24}H_{27}O_8N$ C 62,9 — H 5,9 — O 28,0 — N 3,1 — M. G. 457.
1) Triäthylester d. 2,5-Dimethylpyrrol-1-Benzoylbrenztraubensäure-3,4-Dicarbonsäure. Sm. 123° (B. 36, 395 C. 1903 [1] 723).
- $C_{24}H_{27}N_2J$ 1) Verbindung (aus 2-Methylchinolinjodäthylat) (B. 37, 2016 C. 1904 [2] 125).
- $C_{24}H_{28}O_2N_2$ 6) 4,6-Dioxy-1,3-Di[4-Aethylamidobenzyl]benzol. Sm. 101°. H_2SO_4 (M. 23, 995 C. 1903 [1] 290).
- $C_{24}H_{28}O_4N_2$ 9) 1, 2, 3, 4-Tetrahydro-2-Naphtylamid d. d-Weinsäure. Sm. 221° (Soc. 83, 1345 C. 1904 [1] 83).
10) 1, 2, 3, 4-Tetrahydro-6-Naphtylamid d. d-Weinsäure. Sm. 186° (Soc. 83, 1344 C. 1904 [1] 83).
- $C_{24}H_{28}O_4N_4$ *4) Di[Phenylamidoformiat] d. d-Oxamidocarvoxim. Sm. 161° (A. 330, 274 C. 1904 [1] 948).
5) Di[Phenylamidoformiat] d. l-Oxamidocarvoxim. Sm. 152° (A. 330, 273 C. 1904 [1] 948).
6) Di[Phenylamidoformiat] d. Eucarvonoxaminosim. Sm. 157° (A. 330, 277 C. 1904 [1] 948).
- $C_{24}H_{28}O_{45}N_{12}$ C 23,9 — H 2,3 — O 59,8 — N 14,0 — M. G. 1204.
1) Nitrocellulose (C. r. 136, 899 C. 1903 [1] 1081).
- $C_{24}H_{29}ON_3$ 3) α -Oxy-6-Amido-4',4''-Di[Dimethylamido]-3-Methyltriphenylmethan (2,5-Amidomethylmalachitgrün). Sm. 200° u. Zers. (B. 36, 2783 C. 1903 [2] 881).
- $C_{24}H_{29}O_2N$ C 79,3 — H 8,0 — O 8,8 — N 3,9 — M. G. 363.
1) 2-Dekylchinolin-4-Carbonsäure (Bl. [3] 29, 1205 C. 1904 [1] 355).
- $C_{24}H_{30}OS_2$ 1) Diphenylmenthylimidoxanthid (C. 1904 [1] 1347).
- $C_{24}H_{30}O_7N_2$ C 62,9 — H 6,5 — O 24,4 — N 6,1 — M. G. 458.
1) Homonarcotinamid. Sm. 111° (D.R.P. 58394). — *II, 1219.
- $C_{24}H_{30}O_5N_4$ *1) Anhydrid d. Milchzuckerdi[Phenylhydrazon]. Sm. 223—224° (Bl. [3] 29, 1225 C. 1904 [1] 361).
- $C_{24}H_{31}O_5N$ C 69,7 — H 7,5 — O 19,4 — N 3,4 — M. G. 413.
1) Butylhydroxyd d. Papaverin. Salze siehe (B. 37, 3810 C. 1904 [2] 1574).
- $C_{24}H_{31}O_6Br$ 1) Verbindung (aus Dibromasaron). Sm. 109,5° (Ar. 242, 101 C. 1904 [1] 1008).
- $C_{24}H_{32}O_2N_2$ 2) Piperidomethylmorphimethin. Fl. (2HCl, $PtCl_4$) (B. 36, 1593 C. 1903 [2] 54).
3) Di[4-Methylphenylamid] d. β -Methylheptan- γ -Dicarbonsäure. Sm. 229° (C. r. 136, 459 C. 1903 [1] 696).
C 72,7 — H 8,1 — O 12,1 — N 7,1 — M. G. 396.
- $C_{24}H_{32}O_3N_2$ 1) Diäthylderivat d. Yohimboensäure. Sm. 189° (191,5—192°) (B. 37, 1764 C. 1904 [1] 1527).
- $C_{24}H_{32}O_5N_2$ C 60,5 — H 6,7 — O 26,9 — N 5,9 — M. G. 476.
1) Tetraäthylester d. 2,5,2',5'-Tetramethyl-1,1'-Bipyrrol-3,4,3',4'-Tetracarbonsäure. Sm. 126—127° (B. 37, 2699 C. 1904 [2] 532).
- $C_{24}H_{32}O_9N_4$ *3) Di[Phenylhydrazon] d. Milchzucker (Bl. [3] 29, 1225 C. 1904 [1] 361).
- $C_{24}H_{32}O_3N$ 2) 4-Acetat d. Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin-4'-Äthyläther. Sm. 122—123° (B. 36, 2888 C. 1903 [2] 875).
- $C_{24}H_{32}O_6N$ C 66,8 — H 7,7 — O 22,3 — N 3,2 — M. G. 431.
1) 3,4,3',4'-Tetramethyläther- β - β -Diäthyläther d. α -[β -Dioxyäthyl]-imido- α -Di[3,4-Dioxyphenyl]äthan. Fl. (A. 329, 57 C. 1903 [2] 1448).
- $C_{24}H_{34}O_7Cl_2$ 1) Dichlormonodesoxybiliansäure. Sm. 249—250° (M. 24, 52 C. 1903 [1] 765).
- $C_{24}H_{35}O_2N$ *1) Diäthyläther d. Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin. (HCl, $SnCl_2 + 3H_2O$), HJ (B. 36, 2887 C. 1903 [2] 874).
- $C_{24}H_{35}O_9N_3$ *1) Verbindung (aus Thymoläthyläther). Sm. 79°. 2HNO₃ (B. 36, 2886 C. 1903 [2] 874).
- $C_{24}H_{36}O_5N_2$ 2) Verbindung (aus Isobiliansäure). Zers. bei 270° (M. 24, 56 C. 1903 [1] 766).
- $C_{24}H_{36}OBr_2$ 1) Alstoldibromid. Sm. 135—138° (B. 37, 4111 C. 1904 [2] 1656).
- $C_{24}H_{36}O_4N$ C 71,1 — H 9,6 — O 15,8 — N 3,5 — M. G. 405.
1) 2-Nitrophenylester d. Stearinsäure. Sm. 60—61° (A. 332, 206 C. 1904 [2] 211).

- $C_{24}H_{40}O_3N_2$ 2) isom. Phenylhydrazonoxystearinsäure. Sm. 102,5—105° (B. 36, 2659 C. 1903 [2] 826).
 $C_{24}H_{44}O_{11}N_6$ C 47,4 — H 7,2 — O 31,6 — N 13,8 — M. G. 608.
 1) Hexa[Aethylamidoformiat] d. d-Mannit. Sm. 270° (C. r. 138, 636 C. 1904 [1] 1068).
 $C_{24}H_{45}O_4Br$ 1) Bromacetoxylbehensäure (C. 1903 [1] 319; J. pr. [2] 67, 298 C. 1903 [1] 1404).
 $C_{24}H_{46}ON_2$ C 76,2 — H 12,2 — O 4,2 — N 7,4 — M. G. 378.
 1) 2,5-Diundekyl-1,3,4-Oxdiazol. Sm. 56°; Sd. 275°₂₂ (J. pr. [2] 69, 503 C. 1904 [2] 601).
 $C_{24}H_{46}N_2S$ 1) 2,5-Diundekyl-1,3,4-Thiodiazol. Sm. 49° (J. pr. [2] 69, 504 C. 1904 [2] 601).
 $C_{24}H_{54}N_3P$ 1) Tri[Diisobutylamido]phosphin. Sd. 190—200°₁₈ (A. 326, 170 C. 1903 [1] 762).

— 24 IV —

- $C_{24}H_{10}ON_3Br_2$ 1) Verbindung (aus 3-Brom-7,8-Acenaphtenchinon). Sm. noch nicht bei 300° (A. 327, 88 C. 1903 [1] 1228).
 $C_{24}H_{10}O_2N_2S$ 1) $\alpha\alpha$ -Dinitroindaphtylenthiofen (B. 36, 3771 C. 1903 [2] 1446).
 $C_{24}H_{14}O_6N_2S$ 1) 2-[2-Oxy-1-Naphtylazo]-9,10-Anthrachinon-2'-Sulfonsäure (C. 1904 [1] 289).
 $C_{24}H_{16}O_3N_2Br_2$ 1) β -Dibrom-m-Xylilindigo (D. R. P. 154338 C. 1904 [2] 1080).
 $C_{24}H_{17}O_3N_2Br$ 2) Brom-m-Xylilindigo (D. R. P. 154338 C. 1904 [2] 1080).
 $C_{24}H_{18}ON_5Br$ 3) 3- oder -6-Brom-2,5-Di[Phenylamido]-4-Phenylimido-1-Keto-1,4-Dihydrobenzol. Sm. 173° (B. 35, 3854 C. 1903 [1] 26; Am. 30, 531 C. 1904 [1] 366).
 $C_{24}H_{18}O_3NCl_3$ 1) Trichlordiäthylamidofluoran (D. R. P. 139727 C. 1903 [1] 796).
 $C_{24}H_{18}O_3N_5Cl$ 1) 6-Chlor-2,4-Dinitro-1,3,5-Tri[Phenylamido]benzol. Sm. 179° + C_6H_6 , + C_7H_8 , + $C_8H_8O_2$, + $CHCl_3$ (Am. 31, 367 C. 1904 [1] 1408).
 $C_{24}H_{18}O_7N_4S_2$ 1) Disazoverbindung (aus 4,4'-Diamido-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure u. 2-Oxynaphtalin). Ba (J. pr. [2] 66, 566 C. 1903 [1] 519).
 $C_{24}H_{19}O_2N_3Br_2$ 1) β -Dibrom- β -Di[Phenylamido]-1,2-Benzochinon + Anilin. Sm. 123° (B. 35, 3853 C. 1903 [1] 26).
 $C_{24}H_{20}ON_2S$ 1) 2-[2-Methylphenyl]imido-4-Keto-3-[2-Methylphenyl]-5-Benzylidentetrahydrothiazol. Sm. 179—180°. + C_2H_5ONa (C. 1903 [1] 1258).
 $C_{24}H_{20}O_3NCl$ 1) Chlordiäthylamidofluoran. Sm. 148° (D. R. P. 139727 C. 1903 [1] 796).
 $C_{24}H_{20}O_3N_3Cl_3$ 1) s-Dichlordiäthylrhodamin (D. R. P. 108347). — *III, 575.
 $C_{24}H_{20}O_4N_2S_2$ *1) 4,4'-Di[Phenylsulfonamido]biphenyl. Sm. 234,5° (B. 37, 3772 Anm. C. 1904 [2] 1547).
 $C_{24}H_{20}O_4N_2S_3$ 1) Di[Phenylamido] d. Disulfid-4,4'-Disulfonsäure. Sm. 212,5° (R. 22, 300 C. 1904 [1] 23).
 $C_{24}H_{21}O_3N_2Br_3$ 2) 1,3-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Phenylamidomethyl]benzol. Sm. 207—208° (B. 37, 3908 C. 1904 [2] 1593).
 3) 3,4-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Phenylamidomethyl]benzol. Sm. 200—201° (B. 37, 3909 C. 1904 [2] 1593).
 $C_{24}H_{22}O_3Br_2S$ 1) $\alpha\beta$ -Dibrom- ϵ -[4-Methylphenyl]sulfon- γ -Keto- $\alpha\epsilon$ -Diphenylpentan (Am. 31, 182 C. 1904 [1] 877).
 $C_{24}H_{22}O_4N_2Cl_2$ 1) β -Dichlor-1,2-Di[β -Dimethylamidomethyl]benzol (Bl. [3] 29, 61 C. 1903 [1] 456).
 $C_{24}H_{23}O_3N_2Br_3$ 1) 3-Acetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[2-Methylphenylamidomethyl]benzol. Sm. 190—191° (B. 37, 3912 C. 1904 [2] 1593).
 2) 3-Acetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[4-Methylphenylamidomethyl]benzol. Sm. 206° (B. 37, 3910 C. 1904 [2] 1593).
 $C_{24}H_{26}O_3N_4S_2$ 1) Phenylhydrazid d. α -[2,4-Dimethylphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 150° u. Zers. (J. pr. [2] 70, 387 C. 1904 [2] 1720).
 $C_{24}H_{26}O_4N_4S_2$ 1) 1,3-Di[β -Phenylhydrazonpropylsulfon]benzol. Sm. 172° u. Zers. (J. pr. [2] 68, 326 C. 1903 [2] 1171).
 $C_{24}H_{27}O_7N_6P$ 1) Tri[β -Nitro-2,4-Dimethylphenylamid] d. Phosphorsäure (A. 326, 252 C. 1903 [1] 868).

- $C_{24}H_{28}O_2N_4S_2$ 1) Di[Phenylamidothioformiat] d. Oxamidocarvoxim. Sm. 142 bis 143° (*B.* 32, 1347). — *III, 86.
- $C_{24}H_{28}O_8NCl$ 1) Verbindung (aus Chlordimethyläther u. Narkotin). Sm. 210° u. Zers. + $AuCl_3$ (*A.* 334, 55 *C.* 1904 [2] 948).
- $C_{24}H_{28}O_{10}N_2S_2$ 1) Benzol-1,3-Disulfonsäure + 2 Molec. 4-Amidobenzol-1-Carbonsäureäthylester. Zers. bei 235° (*D.R.P.* 150070 *C.* 1904 [1] 975).
- $C_{24}H_{30}ON_3P$ 3) Tri[Aethylphenylamid] d. Phosphorsäure. Sm. 182° (*A.* 326, 257 *C.* 1903 [1] 869).
- 4) Tri[2,4-Dimethylphenylamid] d. Phosphorsäure. Sm. 198° (225°) (*A.* 326, 252 *C.* 1903 [1] 868; *C.* 1904 [2] 647).
- 5) Tri[2,5-Dimethylphenylamid] d. Phosphorsäure. Sm. 247° (*A.* 326, 252 *C.* 1903 [1] 868).
- 6) Tri[3,4-Dimethylphenylamid] d. Phosphorsäure. Sm. 183° (*A.* 326, 252 *C.* 1903 [1] 868).
- $C_{24}H_{30}O_4NCl$ 1) Chlorbutylat d. Papaverin + 2H₂O. Sm. 131—132°. 2 + $PtCl_4$, + $AuCl_3$ (*B.* 37, 3810 *C.* 1904 [2] 1574).
- $C_{24}H_{30}O_4NBr$ 1) Brombutylat d. Papaverin + 2H₂O (*B.* 37, 3810 *C.* 1904 [2] 1574).
- $C_{24}H_{30}O_4NJ$ 1) Jodisobutylat d. Papaverin. Sm. 171—172° (*B.* 37, 3811 *C.* 1904 [2] 1574).
- $C_{24}H_{31}O_2N_3J$ *1) Aethylester d. $\alpha\beta$ -Di[1,2,3,4-Tetrahydro-2-Isochinolyl]äthan-2-Jodammoniumessigsäure. Sm. 158—159° (*B.* 36, 1168 *C.* 1903 [1] 1187).
- $C_{24}H_{33}O_3N_2J$ 1) Jodmethylat d. Piperidocodid. Sm. 256° (*B.* 36, 1593 *C.* 1903 [2] 54).
- $C_{24}H_{54}ON_3P$ 1) Tri[Diisobutylamid] d. Phosphorsäure. Fl. (*A.* 326, 200 *C.* 1903 [1] 821).
- $C_{24}H_{54}O_8N_3P_3$ 1) trim. Phosphinodiisobutylamin. Sm. 79°; Sd. 255°₁₅ (*A.* 326, 193 *C.* 1903 [1] 820).
- $C_{24}H_{54}N_3SP$ 1) Tri[Diisobutylamid] d. Thiophosphorsäure. Fl. (*A.* 326, 218 *C.* 1903 [1] 822).

— 24 V —

- $C_{24}H_{27}ON_6S_3P$ 2) Phosphoryltri[4-Methylphenylthioharnstoff]. Sm. 95—100° u. Zers. (*Soc.* 85, 367 *C.* 1904 [1] 1407).

C₂₅-Gruppe.

- $C_{25}H_{20}$ *1) Tetraphenylmethan. Sm. 282° (285°); Sd. 431°₇₆₀ (*B.* 36, 408 *C.* 1903 [1] 586; *B.* 36, 1090 *C.* 1903 [1] 1356).
- $C_{25}H_{22}$ *2) α -Dypnokinakolen. Sm. 98°; Sd. 292—295°₄₀ (*C.* 1903 [2] 1373).
- 3) 2,5-Dimethyl-1,3,4-Triphenyl-R-Penten. Sm. 127—128° (*Soc.* 83, 370 *C.* 1903 [1] 569).
- $C_{25}H_{24}$ *1) Kohlenwasserstoff (aus α -Dypnopinakolen). Sm. 145°; Sd. 275—280°₂₈ (*C.* 1903 [2] 1373).
- 2) Kohlenwasserstoff (aus α -Dypnopinakolen). Sm. 115°; Sd. 275—280°₂₅ (*C.* 1903 [2] 1373).
- $C_{25}H_{26}$ C 92,0 — H 8,0 — M. G. 326.
- 1) 1,3-Dimethyl-2,4,5-Triphenyl-R-Pentamethylen. Sm. 80—81° (*Soc.* 83, 371 *C.* 1903 [1] 568).
- 2) isom. 1,3-Dimethyl-2,4,5-Triphenyl-R-Pentamethylen. Sd. 246—248°₂₅ (*Soc.* 83, 371 *C.* 1903 [1] 568).
- 3) Kohlenwasserstoff (aus α -Dypnopinakolen) (Gemisch) (*C.* 1903 [2] 1373).

— 25 II —

- $C_{25}H_{18}O$ 2) 9-Phenyl-9-[4-Oxyphenyl]fluoren. Sm. 191° (*B.* 37, 77 *C.* 1903 [1] 519).
- 3) 9,9-Diphenylxanthen. Sm. 200° (*B.* 37, 2369 *C.* 1904 [2] 344).
- $C_{25}H_{18}O_2$ 2) Benzotat d. 2-Oxy-1,4-Diphenylbenzol. Sm. 105° (*B.* 36, 1409 *C.* 1903 [1] 1358).

- $C_{25}H_{18}O_8$ 2) Anhydrid d. $\alpha\alpha$ -Diphenyl- δ -[4-Methylphenyl]- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Sm. 194° (B. 37, 2661 C. 1904 [2] 523).
- $C_{25}H_{18}O_5$ 2) 2,4,6-Triphenyl-1,4-Pyrron-3,5-Dicarbonsäure (Dehydrobenzyliden-bisbenzoylessigsäure). Sm. 141° u. Zers. (G. 33 [2] 150 C. 1903 [2] 1270).
- $C_{25}H_{18}O_8$ 2) Triacetat d. 2,3,7-Trioxy-9-Phenylfluoron. Sm. 230–233° (B. 37, 1174 C. 1904 [1] 1161).
- $C_{25}H_{19}N$ C 90,1 — H 5,7 — N 4,2 — M. G. 333.
- 1) 4-Phenylimido-1-Diphenylmethylen-1,4-Dihydrobenzol. Sm. 133 bis 138°. HCl, Pikrat + $\frac{1}{2}C_6H_6$ (B. 37, 609 C. 1904 [1] 887).
- 2) 9-Phenyl-9-[4-Amidophenyl]fluoren. Sm. 179° (B. 37, 75 C. 1904 [1] 519).
- 3) 5,5-Diphenyl-5,10-Dihydroakridin. Sm. 243,5–244,5° (B. 37, 3202 C. 1904 [2] 1472).
- $C_{25}H_{19}Br$ 1) Verbindung (aus α -Dypnopinakolen). Sm. 140°; Sd. oberh. 360° u. Zers. (C. 1903 [2] 1373).
- $C_{25}H_{20}O$ *3) 4-Oxytetraphenylmethan (B. 37, 660 C. 1904 [1] 952).
- $C_{25}H_{20}O_2$ 5) 3⁴-Methyläther d. 5-Oxy-1,2-Diphenyl-3-[4-Oxyphenyl]benzol. Sm. 159–160° (Am. 31, 148 C. 1904 [1] 806).
- 6) 2-Phenyläther d. α ,2-Dioxytriphenylmethan. Sm. 120° (B. 37, 2368 C. 1904 [2] 344).
- $C_{25}H_{20}O_4$ 4) 2^{3,4}-Methylenäther d. 4-Keto-1-Oxy-1,6-Diphenyl-2-[3,4-Dioxyphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 240° (Am. 31, 148 C. 1904 [1] 807).
- 5) $\alpha\alpha$ -Diphenyl- δ -[4-Methylphenyl]- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Sm. 231°. Na₂ (B. 37, 2660 C. 1904 [2] 523).
- $C_{25}H_{20}O_6$ 5) 2^{3,6}-Dimethyläther-3^{3,4}-Methylenäther d. 6-Oxy-2-[2-Oxyphenyl]-3-[3,4-Dioxybenzyliden]-2,3-Dihydro-1,4-Benzopyron. Sm. 207–209° (B. 37, 3171 C. 1904 [2] 1059).
- 6) 7,8-Dimethyläther-3^{3,4}-Methylenäther d. 7,8-Dioxy-2-Phenyl-3-[3,4-Dioxybenzyliden]-2,3-Dihydro-1,4-Benzopyron. Sm. 185° (B. 37, 3172 C. 1904 [2] 1059).
- 7) Dimethylester d. 2,4-Dibenzoyl-1-Methylbenzol-3,5-Dicarbonsäure. Fl. (P. Ch. S. Nr. 203). — *II, 1192.
- 8) Aethylester d. β -[3,4-Dibenzoxylphenyl]akrylsäure. Sm. 104–105° (B. 36, 2935 C. 1903 [2] 888).
- $C_{25}H_{20}O_9$ 4) Monobenzoat d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinontetra-methyläther. Sm. 195–205° (D.R.P. 151724 C. 1904 [1] 1587).
- $C_{25}H_{20}O_{12}$ *1) Pentaacetat d. 3,5,7-Trioxy-2-[3,4-Dioxyphenyl]-1,4-Benzopyron (P. d. Quercetin). Sm. 193–194° (B. 37, 1405 C. 1904 [1] 1356).
- $C_{25}H_{20}N_2$ *2) α -Phenylazotriphenylmethan. Sm. 113–114° (B. 36, 1089 C. 1903 [1] 1355).
- 8) α -Phenylimido- α -Diphenylamido- α -Phenylmethan. Sm. 170° (B. 37, 2683 C. 1904 [2] 521).
- 9) 3-[α -Phenylhydrazonbenzyl]acenaphten. Sm. 140° (A. 327, 96 C. 1903 [1] 1228).
- $C_{25}H_{21}N$ 3) 4-Amidotetraphenylmethan. Sm. 256°. HCl (B. 36, 407 C. 1903 [1] 585).
- $C_{25}H_{21}N_3$ *1) Tetraphenylguanidin. Sm. 137–140° (B. 37, 964 C. 1904 [1] 1002).
- $C_{25}H_{22}O_3$ 2) 3⁴-Methyläther d. 4-Keto-1-Oxy-1,6-Diphenyl-2-[4-Oxyphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 233,5° (Am. 31, 147 C. 1904 [1] 806).
- $C_{25}H_{22}O_4$ 5) 3⁴-Methyläther-6-Aethyläther d. 6-Oxy-2-Phenyl-3-[4-Oxybenzyliden]-2,3-Dihydro-1,4-Benzopyron. Sm. 157° (B. 37, 3170 C. 1904 [2] 1059).
- $C_{25}H_{22}O_5$ 3) 3⁴,7,8-Trimethyläther d. 7,8-Dioxy-2-Phenyl-3-[4-Oxybenzyliden]-2,3-Dihydro-1,4-Benzopyron. Sm. 186° (B. 37, 3171 C. 1904 [2] 1059).
- $C_{25}H_{22}N_2$ *1) α -Phenylhydrazidotriphenylmethan. Sm. 136–137° (B. 36, 1089 C. 1903 [1] 1355).
- 1) α -[1-Naphtyl]imido-4-Dimethylamidodiphenylmethan. Sm. 167° (D.R.P. 41751). — *III, 150.
- $C_{25}H_{23}N_3$ 2) α -Imido- α -[4-Dimethylamidophenyl]- α -[4-Phenylamido-1-Naphtyl]-methan. Sm. 186°. HCl (B. 37, 1906 C. 1904 [2] 116).
- $C_{25}H_{24}O_2$ *4) $\beta\delta$ -Dibenzoyl- γ -Phenylpentan. Sm. 162–163° (Soc. 83, 364 C. 1903 [1] 578, 1129).

- $C_{25}H_{24}O_5$ C 74,3 — H 5,9 — O 19,8 — M. G. 404.
 1) 7-Acetat d. 7-Oxy-4-[3,5-Dioxyphenyl]-2-Phenyl-2,3-Dihydro-1,4-Benzopyran-4^{3,5}-Dimethyläther. Sm. 120—125° (B. 36, 2300 C. 1903 [2] 577).
- $C_{25}H_{24}O_{11}$ 2) Diacetat d. Barbaloin (Bl. [3] 21, 672). — *III, 453.
 3) Pentaacetat d. Acakatechin. Sm. 158—160° (C. 1904 [2] 439).
 4) Pentaacetat d. Cyanomaklurin. Sm. 136—138° (C. 1904 [2] 438).
- $C_{25}H_{24}O_{12}$ 2) Hexaacetat d. Di[2-Trioxyphenyl]methan. Sm. 152—155° (B. 37, 1177 C. 1904 [1] 1161).
- $C_{25}H_{26}O_2$ C 83,8 — H 7,2 — O 8,9 — M. G. 358.
 1) 4,5-Dioxy-1,3-Dimethyl-2,4,5-Triphenyl-R-Pentamethylen. Sm. 143—144° (Soc. 83, 369 C. 1903 [1] 568).
- $C_{25}H_{26}O_9$ 2) Tetraacetat d. 1,3,6,8-Tetraoxy-2,4,5,7-Tetramethylxanthen. Sm. 268—270° (M. 25, 675 C. 1904 [2] 1145).
- $C_{25}H_{28}O_{10}$ 3) 1,3,6,8-Tetraacetat d. 1,3,6,8,9-Pentaoxy-2,4,5,7-Tetramethylxanthen. Sm. 255—260° (M. 25, 676 C. 1904 [2] 1145).
- $C_{25}H_{28}O_{11}$ *1) Ononin (M. 24, 135 C. 1903 [1] 1032; M. 25, 555 C. 1904 [2] 907).
- $C_{25}H_{28}O$ 2) 2-Keto-1,3-Di[4-Isopropylbenzyliden]-R-Pentamethylen. Sm. 143° (B. 36, 1502 C. 1903 [1] 1351).
- $C_{25}H_{28}O_8$ 2) Methylester d. Dibenzoxylidihydropulegensäure. Sm. 204—206° (A. 327, 127 C. 1903 [1] 1412).
- $C_{25}H_{28}O_8$ *1) Acetat d. Quercetintetraäthyläther. Sm. 152—153° (Ar. 242, 239 C. 1904 [1] 1652).
 2) Tetraäthylätheracetat d. Morin. Sm. 121—123° (Soc. 85, 61 C. 1904 [1] 381, 729).
- $C_{25}H_{28}N_4$ 4) Phenylhydrazon d. Base $C_{19}H_{22}ON_2$ (aus Allocinchonin). Sm. 94 bis 96° u. Zers. (M. 22, 203). — *III, 640.
- $C_{25}H_{30}O_4$ 2) 1-Menthylester d. 1- α -Benzoxylphenylessigsäure. Sm. 54—55° (Soc. 85, 1255 C. 1904 [2] 1304).
- $C_{25}H_{30}O_7$ C 67,9 — H 6,8 — O 25,3 — M. G. 442.
 1) Monomethyläther d. Dihydroflavaspidsäurexanthen. Sm. 249 bis 250° (A. 329, 319 C. 1904 [1] 799).
 2) Verbindung (aus Aspidin). Sm. 216° (A. 329, 332 C. 1904 [1] 800).
- $C_{25}H_{32}O_8$ *1) Albaspidin (Polystichalbin). Sm. 150—150,5°. Anilinsalz (C. 1895 [1] 887; 1898 [2] 1103; A. 329, 322 Ann. C. 1904 [1] 799). — *III, 474.
 3) Pseudoaspidin. Sm. 158—159° (A. 329, 334 C. 1904 [1] 800).
 4) Dihydroflavaspidmethyläthersäure. Sm. 201—202° (A. 329, 320 C. 1904 [1] 799).
 5) 2,2'-Dimethyläther d. Di[2,4,6-Trioxy-5-Propionyl-3-Methylphenyl]methan (Methylenbisaspidinol). Sm. 190—191° (A. 329, 287 C. 1904 [1] 796).
 6) Aspidin (Polystichin; Polystichumsäure). Sm. 124—125° (C. 1895 [1] 887; 1896 [2] 1036; 1898 [2] 1103; 1899 [2] 919; A. 329, 327 C. 1904 [1] 799). — *III, 457, 474.
- $C_{25}H_{38}O_2$ C 81,1 — H 10,3 — O 8,6 — M. G. 370.
 1) Verbindung (aus Asclepias syriaca L.). Sm. 87—88° (J. pr. [2] 68, 408 C. 1904 [1] 105).
- $C_{25}H_{40}O_2$ 2) Verbindung (aus Asclepias syriaca L.) (J. pr. [2] 68, 410 C. 1904 [1] 105).
- $C_{25}H_{40}O_8$ C 64,1 — H 8,5 — O 27,3 — M. G. 468.
 1) Saxatsäure. Sm. 115°. Ba (J. pr. [2] 68, 41 C. 1903 [2] 512).
- $C_{25}H_{40}O_{10}$ 3) Lepanthin. Sm. 183° (A. 336, 45 C. 1904 [2] 1324).
- $C_{25}H_{42}O_2$ 2) Verbindung (aus Asclepias syriaca L.) oder $C_{26}H_{44}O_2$. Sm. 87—90° (J. pr. [2] 68, 453 C. 1904 [1] 191).
- $C_{25}H_{42}O_{12}$ C 56,2 — H 7,9 — O 35,9 — M. G. 534.
 1) Cyklamin. Sm. 225° (B. 36, 1761 C. 1903 [2] 119).
- $C_{25}H_{48}O_4$ C 73,2 — H 11,2 — O 15,6 — M. G. 410.
 1) Isobutylester d. Propionylricinolsäure. Sd. 325—335°₈₈₀ (B. 36, 788 C. 1903 [1] 824).
- $C_{25}H_{48}O_8$ 2) norm. Heptylester d. Ricinolsäure. Sd. 295°₁₀ (B. 36, 785 C. 1903 [1] 824).
- $C_{25}H_{50}O_8$ 2) Cerebronsäure. Sm. 99°. Na (H. 43, 26 C. 1904 [2] 1550).

- $C_{25}H_{13}O_3N$ C 80,0 — H 3,5 — O 12,8 — N 3,7 — M. G. 375.
 1) $\alpha\beta$ -Benzoylen- $\alpha_1\beta_1$ -Phtalyl-N-Phenylpyrrol (B. 35, 3959 C. 1903 [1] 32).
- $C_{25}H_{15}O_4N$ 3) 3-Phenylamido-2-[1,3-Diketo-2,3-Dihydro-2-Indenyl]-1,4-Naphtochinon (B. 35, 3958 C. 1903 [1] 32).
- $C_{25}H_{16}O_9N_6$ C 55,1 — H 2,9 — O 26,5 — N 15,4 — M. G. 544.
 1) 3,5,3',5'-Tetranitro-4,4'-Di[Phenylamido]diphenylketon. Sm. 262° (G. 34 [1] 382 C. 1904 [2] 111).
- $C_{25}H_{17}O_4N$ C 75,9 — H 4,3 — O 16,2 — N 3,5 — M. G. 395.
 1) 1-Naphtylester d. β -[4-Nitrophenyl]- α -Phenylakrylsäure. Sm. 126 bis 127° (G. 33 [2] 475 C. 1904 [1] 655).
- $C_{25}H_{17}O_8N_3$ C 65,9 — H 3,7 — O 21,1 — N 9,2 — M. G. 455.
 1) Trinitrotetraphenylmethan. Sm. bei 330° (B. 36, 1091 C. 1903 [1] 1356).
- $C_{25}H_{18}O_5N_4$ * 1) 3,3'-Dinitro-4,4'-Di[Phenylamido]diphenylketon. Sm. 212° (G. 34 [1] 377 C. 1904 [2] 110).
- $C_{25}H_{19}ON$ 3) 9-[4-Amidophenyl]-9-Phenylxanthen. Sm. 227,5°. HCl (B. 37, 2372 C. 1904 [2] 344).
- $C_{25}H_{19}O_4N_5$ 4) Di[2-Naphtylamid] d. Acetoximidomalonsäure. Sm. 179° u. Zers. (Soc. 83, 42 C. 1903 [1] 442).
- $C_{25}H_{20}O_6N_4$ C 63,6 — H 4,2 — O 20,3 — N 11,9 — M. G. 472.
 1) Verbindung (aus Knochenkohle) (C. 1903 [2] 960).
- $C_{25}H_{20}O_2S$ 1) α -Phenylsulfotriphenylmethan. Sm. 175—176° (B. 36, 2789 C. 1903 [2] 882).
- $C_{25}H_{20}N_2S$ 4) Phenyläther d. α -Merkapto- α -Phenylimido- α -Diphenylamidomethan (Isothiotetraphenylharnstoff). Sm. 185—188° (B. 37, 965 C. 1904 [1] 1002).
- $C_{25}H_{21}ON$ 5) α -Oxy-2-Phenylamidotriphenylmethan. Sm. 127,5—128,5° (B. 37, 3202 C. 1904 [2] 1472).
- $C_{25}H_{21}O_2N_3$ 6) α -Oxy-4-Phenylamidotriphenylmethan (B. 37, 611 C. 1904 [1] 888).
 7) Verbindung (aus 2-Methylindol u. 2-Nitrobenzaldehyd). Sm. 230° (B. 36, 4328 C. 1904 [1] 462).
- $C_{25}H_{21}O_4N$ 8) Verbindung (aus 2-Methylindol u. 4-Nitrobenzaldehyd). Sm. 233° (B. 36, 4328 C. 1904 [1] 462).
 C 75,2 — H 5,3 — O 16,0 — N 3,5 — M. G. 399.
 1) 2^{3,4}-Methylenäther d. 4-Oximido-1-Oxy-1,6-Diphenyl-2-[3,4-Dioxyphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 190—191° (Am. 31, 149 C. 1904 [1] 807).
- 2) Verbindung (aus d. Verb. $C_{25}H_{22}O_4N$). Sm. 128° (C. r. 139, 298 C. 1904 [2] 714).
- $C_{25}H_{21}N_2Br$ 2) Brom-1-Naphtylat d. 2-[1-Naphtyl]amido-1,2-Dihydropyridin. Sm. 158° (J. pr. [2] 69, 129 C. 1904 [1] 815).
- 3) Brom-2-Naphtylat d. 2-[2-Naphtyl]amido-1,2-Dihydropyridin. Sm. 182° (J. pr. [2] 69, 126 C. 1904 [1] 815).
- $C_{25}H_{22}ON_2$ 3) 4-Dimethylamidophenyl-4-Phenylamido-1-Naphtylketon. Sm. 201 bis 202° (D.R.P. 79390; C. 1903 [1] 87; B. 37, 1902 C. 1904 [2] 115). — *III, 195.
- 4) α -[2-Oxyphenyl]- $\alpha\alpha$ -Di[2-Methyl-3-Indolyl]methan. Sm. 230—231° (B. 36, 4328 C. 1904 [1] 462; B. 37, 323 C. 1904 [1] 668).
- $C_{25}H_{22}ON_4$ C 76,1 — H 5,6 — O 4,1 — N 14,2 — M. G. 394.
 1) 3,3'-Diamido-4,4'-Di[Phenylamido]diphenylketon. Sm. 160° (G. 34 [1] 378 C. 1904 [2] 110).
- 2) $\alpha\beta$ -Di[Diphenylamido]harnstoff. Sm. 239—240° (B. 36, 3157 C. 1903 [2] 1057).
- $C_{25}H_{22}O_3N_2$ 2) Verbindung (aus $\gamma\delta$ -Diphenyl- β -Methylbutan- $\gamma\delta$ -Oxyd- $\beta\delta$ Dicarbonsäure). Sm. 182° u. Zers. (Soc. 83, 307 C. 1903 [1] 879).
- $C_{25}H_{23}ON_3$ 2) 1-[4-Aethylbenzylamidophenyl]azo-1-Oxynaphtalin. Sm. 135,5° (A. 334, 264 C. 1904 [2] 902).
- $C_{25}H_{23}O_2N_3$ C 75,6 — H 5,8 — O 8,0 — N 10,6 — M. G. 397.
 1) 8-Nitro-6-tert. Amyl-2,3-Diphenyl-1,4-Benzdiazin. Sm. 189—190° (A. 327, 215 C. 1903 [1] 1408).

- $C_{25}H_{29}O_3N$ 2) 3'-Methyläther d. 4-Oximido-1-Oxy-1,6-Diphenyl-2-[4-Oxyphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 196° (*Ann.* 31, 147 *C.* 1904 [1] 806).
- 3) Benzoat d. Methylapomorphin. + C_2H_6O (Sm. 85—90°) (*B.* 35, 4388 *C.* 1903 [1] 339).
- $C_{25}H_{29}O_3N_3$ C 72,6 — H 5,6 — O 11,6 — N 10,1 — M. G. 413.
- 1) Aethylester d. 4[oder 5]-Phenylhydrazon-5-[oder 4]-Keto-1,2-Diphenyltetrahydropyrrrol-3-Carbonsäure. Sm. 150° (*C. r.* 139, 212 *C.* 1904 [2] 656).
- $C_{25}H_{29}O_4N$ 2) Verbindung (aus d. Verb. $C_{25}H_{29}O_8N$). Sm. 146—147° (*C. r.* 139, 298 *C.* 1904 [2] 714).
- $C_{25}H_{29}O_3N$ C 64,5 — H 4,9 — O 27,5 — N 3,0 — M. G. 465.
- 1) Dimethyläther d. 3-Nitrobenzylidendivanillin. Sm. 181—183° (*B.* 36, 3977 *C.* 1904 [1] 373).
- 2) Dimethyläther d. 4-Nitrobenzylidendivanillin. Sm. 186—188° (*B.* 36, 3975 *C.* 1904 [1] 373).
- $C_{25}H_{24}O_5N_2$ C 75,0 — H 6,0 — O 12,0 — H 7,0 — M. G. 400.
- 1) Verbindung (aus ϵ -Keto- γ - δ -Diphenylhexan- γ - δ -Oxyd- β -Carbonsäure). Sm. 212° u. Zers. (*Soc.* 83, 296 *C.* 1903 [1] 878).
- $C_{25}H_{24}O_3N_4$ C 70,1 — H 5,6 — O 11,2 — N 13,1 — M. G. 428.
- 1) Benzylidenhydrazid d. α -Benzoylamidoacetylamo- β -Phenylpropionsäure. Sm. 158° (*J. pr.* [2] 70, 228 *C.* 1904 [2] 1462).
- $C_{25}H_{24}O_4N_2$ 3) 6-Methyläther-4,5-Methylenäther d. 4,5,6-Trioxy-2-[β -Methylbenzoylamidoäthyl]-1-Phenylimidomethylbenzol (Benzoylcotarnin-anil). Sm. 165° (*B.* 36, 1536 *C.* 1903 [2] 53).
- $C_{25}H_{24}O_4S_2$ 1) 2,5-Diacetat d. 3,6-Dimerkapto-2,5-Dioxy-1-Methylbenzol-3,6-Dibenzyläther. Sm. 116—117° (*A.* 336, 165 *C.* 1904 [2] 1300).
- $C_{25}H_{25}O_3N_3$ 2) 2,4',4''-Tri[Acetylamido]triphenylmethan (Triacetylparaleukanilin). Sm. 200—201° (*C.* 1904 [1] 460).
- $C_{25}H_{25}O_4N_3$ 3) α -Oxytri [4-Acetylamidophenyl]methan (Triacetylparaeosanilin). Sm. 192° (*C.* 1904 [1] 461).
- $C_{25}H_{25}O_4N_5$ C 65,4 — H 5,4 — O 13,9 — N 15,3 — M. G. 459.
- 1) Di[Phenylamid] d. α -Benzoylamidoacetylamoäthan- α -Carbon-säure- β -Amidoameisensäure. Sm. 218—220° u. Zers. (*J. pr.* [2] 70, 180 *C.* 1904 [2] 1397).
- $C_{25}H_{25}O_6N$ C 69,0 — H 5,7 — O 22,1 — N 3,2 — M. G. 435.
- 1) Verbindung (aus Oxalessigsäureäthylester, Benzaldehyd u. 2-Amidona-phthalin). Sm. 162° (*C. r.* 139, 298 *C.* 1904 [2] 713).
- $C_{25}H_{25}N_2Cl$ 1) Chloräthylat d. 1-Aethyl-2,4,5-Triphenylimidazol (Ch. d. Aethyl-lophin). + $AuCl_3$ (*A.* 122, 326). — III, 27; *III, 19.
- $C_{25}H_{26}ON_2$ *1) α -Phenylimido- γ -Benzoylphenylamido- β -Methylpentan. Sm. 144°. + C_2H_6O (*A.* 329, 212 *C.* 1903 [2] 1427).
- 5) α -Benzoyl- α -[2,5-Dimethylbenzyl]- β -[2,5-Dimethylbenzyliden]-hydrazin. Sm. 134—134,5° (*C.* 1903 [1] 141).
- 6) Aethylhydroxyd d. 1-Aethyl-2,4,5-Triphenylimidazol (Diäthyl-lophin). Salze siehe (*A.* 122, 326; *M.* 17, 304). — III, 27; *III, 19.
- $C_{25}H_{26}O_2N_2$ 3) 4,4'-Di[Acetylamido]-3,3'-Dimethyltriphenylmethan. Sm. 265 bis 266° (*C.* 1904 [2] 227).
- $C_{25}H_{26}O_6N_2$ C 66,7 — H 5,8 — O 21,3 — N 6,2 — M. G. 450.
- 1) α - β -Di[Phenylamidoformiat] d. i-3,4-Dioxy-1-[α - β -Dioxypropyl]-benzol-3,4-Dimethyläther. Sm. 166—168° (*B.* 36, 3582 *C.* 1903 [2] 1363).
- $C_{25}H_{27}ON_3$ C 77,9 — H 7,0 — O 4,2 — N 10,9 — M. G. 385.
- 1) Inn. Anhydrid d. α -Oxy-2-Acetylamido-4,4'-Di[Dimethylamido]-triphenylmethan. Sm. 190—191° (*B.* 17, 1892; *B.* 36, 2784 *C.* 1903 [2] 881). — II, 1087.
- $C_{25}H_{29}O_4N_4$ C 67,0 — H 6,2 — O 14,3 — N 12,5 — M. G. 448.
- 1) Phenylhydrazon-Phenylbenzylhydrazon d. Glykose. Sm. 190° (*B.* 37, 2624 *C.* 1904 [2] 588).
- $C_{25}H_{29}ON_3$ *1) 2'-Acetylamido-4,4'-Di[Dimethylamido]triphenylmethan. Sm. 185 bis 186° (*B.* 36, 2785 *C.* 1903 [2] 881).
- $C_{25}H_{29}O_4P$ 1) Amyldinaphtylester d. Phosphorsäure (D.R.P. 142971 *C.* 1903 [2] 171).
- $C_{25}H_{29}O_6N$ C 70,9 — H 6,9 — O 18,9 — N 3,3 — M. G. 423.
- 1) Diäthylester d. β -Phenylamido- ζ -Keto- δ -Phenyl- β -Hepten- γ -Di-carbonsäure. Sm. 150° (*B.* 36, 2187 *C.* 1903 [2] 569).

- $C_{25}H_{29}O_6N$ C 68,3 — H 6,6 — O 21,9 — N 3,2 — M. G. 439.
 1) Aethylester d. Anhydrocortarninbenzylacetessigsäure. Fl. HCl, (2 HCl, PtCl₄) (B. 37, 2748 C. 1904 [2] 545).
 $C_{25}H_{30}ON_2$ 2) Aethyläther d. 4', 4''-Di[Dimethylamido]-4-Oxytriphenylmethan. Sm. 125° (A. 329, 80 C. 1903 [2] 1441).
 $C_{25}H_{30}O_3N_2$ 5) Diäthylester d. γ -Phenylhydrazon- β -Oxy- δ -Phenyl- β -Hepten- γ -Dicarbonsäure. Sm. 193° (B. 36, 2124 C. 1903 [2] 365).
 $C_{25}H_{30}O_8N_4$ C 58,3 — H 5,8 — O 24,9 — N 10,9 — M. G. 514.
 1) Triäthylester d. 2,5-Dimethylpyrrol-1-Semicarbazonbenzoylbrenztraubensäure-3,4-Dicarbonsäure. Sm. 134° (B. 36, 397 C. 1903 [1] 723).
 $C_{25}H_{31}ON_3$ *2) α -Oxytri[4-Dimethylamidophenyl]methan (B. 36, 4297 C. 1904 [1] 379).
 $C_{25}H_{31}O_8N$ 2) Homonarcinmethylester. HCl (D.R.P. 71797). — *II, 1219.
 $C_{25}H_{32}ON_2$ 3) $\alpha\alpha$ [oder $\alpha\beta$]-Di[1-Piperidyl]- γ -Keto- α -Diphenylpropan. Sm. 156 bis 157°. HCl (Soc. 85, 1322 C. 1904 [2] 1645).
 $C_{25}H_{32}O_5N_6$ C 60,5 — H 6,4 — O 16,1 — N 16,9 — M. G. 496.
 1) s-Di[β -Benzoylamidoacetylamidopropyl]harnstoff. Sm. 157° (J. pr. [2] 70, 214 C. 1904 [2] 1460).
 $C_{25}H_{41}O_2N$ 1) Phenylamidoformiat d. Alkohol $C_{18}H_{39}O$ (aus Oelsäure). Sm. 38° (C. r. 137, 328 C. 1903 [2] 710).
 $C_{25}H_{41}O_9N$ C 60,1 — H 8,2 — O 28,9 — N 2,8 — M. G. 499.
 1) Akonin (oder $C_{25}H_{39}O_9N$). HCl + 2 H₂O (C. 1904 [2] 1239).
 $C_{25}H_{48}N_3J_2$ 1) Di[Jodisoamylat] d. Spartein. Sm. 230° (Ar. 242, 520 C. 1904 [2] 1413).

— 25 IV —

- $C_{25}H_{17}O_2N_4Br$ 1) Benzoat d. 3-Phenylazo-4-[4-Bromphenyl]azo-1-Oxybenzol. Sm. 175—176,5° (B. 36, 4116 C. 1904 [1] 272).
 $C_{25}H_{19}O_4NS$ 1) α -Phenylsulfon-4-Nitrotriphenylmethan. Sm. 167—168° (B. 37, 608 C. 1904 [1] 887).
 $C_{25}H_{20}O_5NP$ 1) Triphenylester d. Phosphorsäurephenylmonamid - 2 - Carbonsäure. Sm. 94° (B. 36, 1827 C. 1903 [2] 201).
 $C_{25}H_{29}O_{16}N_3S_2$ 1) Verbindung + 7 H₂O (aus Taurin u. Phtalsäureanhydrid). Sm. 50° (C. 1903 [2] 986).
 $C_{25}H_{31}O_2N_4Cl$ 1) Mentylester d. 4-Chlorphenylazo-4-Methylphenylhydrazonessigsäure. Sm. 145—147° (Soc. 83, 1126 C. 1903 [2] 24, 791).
 $C_{25}H_{31}O_3N_4Br$ 1) Mentylester d. 4-Bromphenylazo-4-Methylphenylhydrazonessigsäure. Sm. 149—151° (Soc. 83, 1126 C. 1903 [2] 24, 791).
 $C_{25}H_{33}O_3NBr_2$ 1) N-Laurylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 50—51° (A. 332, 202 C. 1904 [2] 211).
 $C_{25}H_{35}O_2N_2J$ 1) Jodmethylester d. Piperidomethylmorphimethin. Sm. 248° (B. 36, 1594 C. 1903 [2] 54).
 $C_{25}H_{36}O_3N_2J_2$ 1) Di[Jodmethylester] d. Piperidocodid. Sm. 250° (B. 36, 1593 C. 1903 [2] 54).
 $C_{25}H_{38}O_3N_2J_2$ 1) Jodbenzylat d. Sparteinjodammoniumessigsäuremethylester. Sm. 219° (Ar. 242, 518 C. 1904 [2] 1412).
 2) isom. Jodbenzylat d. Sparteinjodammoniumessigsäuremethylester. Sm. 245° (Ar. 242, 518 C. 1904 [2] 1412).
 $C_{25}H_{37}N_3JP$ 1) Methyltri[Diisobutylamido]phosphoniumjodid. Sm. 138° (A. 326, 170 C. 1903 [1] 762).

C₂₆-Gruppe.

- $C_{26}H_{18}$ *3) 9,10-Diphenylphenanthren. Sm. 233—234° (B. 37, 2900 C. 1904 [2] 1311).
 4) 9,10-Diphenylanthracen. Sm. 240° (C. r. 138, 1252 C. 1904 [2] 118).
 $C_{26}H_{20}$ 7) isom. 9,10-Diphenyl-9,10-Dihydroanthracen. Sm. 218° (C. r. 138, 1253 C. 1904 [2] 118).
 $C_{26}H_{22}$ *1) $\alpha\alpha\beta\beta$ -Tetraphenyläthan. Sm. 209° (J. pr. [2] 67, 128 C. 1903 [1] 872; J. pr. [2] 67, 183 C. 1903 [1] 875; B. 36, 2825 C. 1903 [2] 1128).
 $C_{26}H_{42}$ 2) Kohlenwasserstoff (aus Cholesterinphenylamidoformiat) oder $C_{27}H_{44}$. Sm. 75,5° (Bl. [3] 31, 72 C. 1904 [1] 575).

— 26 II —

- $C_{26}H_{14}O_4$ C 80,0 — H 3,6 — O 16,4 — M. G. 390.
 1) Di- β -Naphthocumarin. Sm. oberh. 300° (B. 36, 1972 C. 1903 [2] 377).
 $C_{26}H_{16}O_2$ 3) Lakton d. Säure $C_{26}H_{16}O_2$. Sm. 213—219° (B. 29, 2155). — *II, 1023.
 $C_{26}H_{16}O_4$ 2) Resorcinanthrachinon (B. 36, 2022 C. 1903 [2] 378).
 $C_{26}H_{16}N_4$ 3) Naphtofluorindin (B. 37, 3889 C. 1904 [2] 1654).
 $C_{26}H_{16}Cl_4$ 1) 10,10-Dichlor-9,9-Di[4-Chlorphenyl]-9,10-Dihydroanthracen. Sm. 158,5° (B. 37, 3618 C. 1904 [2] 1503).
 $C_{26}H_{16}Br_4$ *1) Tetra[4-Bromphenyl]äthen. Sm. 248° (Am. 30, 456 C. 1904 [1] 377).
 $C_{26}H_{18}O$ *2) 9-Benzoyl-9-Phenylfluoren. Sm. 172° (B. 37, 2898 C. 1904 [2] 1310).
 6) 9,10-Anhydrid d. 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydrophenanthren. Sm. 194—195° (B. 37, 2903 C. 1904 [2] 1311).
 7) Verbindung (aus d. Verbindung $C_{26}H_{18}O_2$). Sm. 157° (B. 29, 741). — *II, 993.
 $C_{26}H_{18}O_2$ *1) 4,4'-Dibenzoylbiphenyl. Sm. 218° (A. 332, 79 C. 1904 [2] 43).
 *2) 2,2'-Dibenzoylbiphenyl. Sm. 165—167° (B. 37, 2899 C. 1904 [2] 1311).
 4) Verbindung (aus d. Säure $C_{27}H_{20}O_3$). Sm. 175° (B. 29, 740). — *II, 993.
 $C_{26}H_{18}O_3$ 2) 10-Keto-9,9-Di[4-Oxyphenyl]-9,10-Dihydroanthracen. Sm. 308 bis 309° (B. 36, 2020 C. 1903 [2] 378; B. 37, 3616 C. 1904 [2] 1503).
 3) Säure (aus d. Säure $C_{26}H_{18}O_3$). Sm. 177—179° u. Zers. (B. 29, 2155). — *II, 1023.
 $C_{26}H_{18}O_4$ 7) Dibenzozat d. 3,3'-Dioxybiphenyl. Sm. 92° (A. 332, 65 C. 1904 [2] 42).
 $C_{26}H_{18}O_6$ 2) 7-Acetoxy-3-Benzoyl-4-Methylen-2-Phenyl-1,4-Benzpyran-2'-Carbonsäure. Sm. 148° (B. 37, 1969 C. 1904 [2] 231).
 $C_{26}H_{18}N_4$ 2) 3,8-Di[Benzylidenamido]-5,6-Naphtisodiazin. Sm. 210° (C. 1904 [1] 1614).
 $C_{26}H_{18}Cl_2$ 1) 9,10-Dichlor-9,10-Diphenyl-9,10-Dihydroanthracen. Sm. 178° u. Zers. (C. r. 138, 1252 C. 1904 [2] 118).
 $C_{26}H_{18}Br_4$ 1) $\alpha\alpha\beta\beta$ -Tetra[4-Bromphenyl]äthan. Sm. oberh. 300° (Am. 30, 458 C. 1904 [1] 377).
 $C_{26}H_{19}N_5$ C 77,8 — H 4,7 — N 17,5 — M. G. 401.
 1) Amidonaphtyldiamidonaphtophenazin. 2HCl (B. 37, 3889 C. 1904 [2] 1654).
 $C_{26}H_{20}O_2$ 7) 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydroanthracen. Sm. 242° (247°) (C. r. 138, 327 C. 1904 [1] 814; Bl. [3] 31, 798 C. 1904 [2] 529).
 8) 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydrophenanthren. Sm. 202—204° (B. 37, 2901 C. 1904 [2] 1311).
 9) isom. 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydrophenanthren. Sm. 178—179° (B. 37, 2903 C. 1904 [2] 1311).
 $C_{26}H_{20}O_6$ *2) Rhizocarpsäure (C. 1903 [2] 121).
 $C_{26}H_{20}O_{11}$ C 61,4 — H 3,9 — O 34,6 — M. G. 508.
 1) Pentaacetat d. Pentaoxybrasan. Sm. 268° (B. 36, 2200 C. 1903 [2] 381).
 $C_{26}H_{20}O_{14}$ *1) Hexaacetat d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinon. Sm. 282 bis 283° (C. 1903 [1] 398).
 $C_{26}H_{20}N_2$ *4) 4,4'-Di[Benzylidenamido]biphenyl. Sm. 232—233° (234°) (Soc. 85, 1176 C. 1904 [2] 1215; B. 37, 3423 C. 1904 [2] 1295).
 *6) Di[Diphenylmethylen]hydrazin. Sm. 160—162° (B. 37, 3180 C. 1904 [2] 991).
 13) 4,4'-Di[Phenylimidomethyl]biphenyl. Sm. 215° (A. 332, 75 C. 1904 [2] 43).
 $C_{26}H_{22}O$ *2) Benzhydroläther. Sm. 109° (B. 36, 2825 C. 1903 [2] 1128).
 5) 4'-Oxy-4-Methyltetraphenylmethan. Sm. 201° (B. 37, 659 C. 1904 [1] 952).
 $C_{26}H_{22}O_2$ *2) Benzpinakon. Sm. 186° (B. 36, 1577 C. 1903 [1] 1397; C. r. 136, 694 C. 1903 [1] 967; J. pr. [2] 67, 191 C. 1903 [1] 875; B. 36, 2632 C. 1903 [2] 426; B. 37, 2761 C. 1904 [2] 707; C. r. 139, 480 C. 1904 [2] 1052).
 5) Lakton d. α -Oxy- α -[4-Isopropylphenyl]- $\beta\delta$ -Diphenyl- $\alpha\gamma$ -Butadien- γ -Carbonsäure. Sm. 143° (A. 333, 249 C. 1904 [2] 1391).

- $C_{26}H_{22}O_4$ 6) Lakton d. α -Oxy- γ -Keto- β -Benzoyl- β -Phenyl- α -[4-Isopropylphenyl]propan- γ -Carbonsäure. Sm. 140° (A. 333, 240 C. 1904 [2] 1390).
- 7) isom. Lakton d. α -Oxy- γ -Keto- β -Benzoyl- β -Phenyl- α -[4-Isopropylphenyl]propan- γ -Carbonsäure. Sm. 126° (A. 333, 254 C. 1904 [2] 1391).
- $C_{26}H_{22}N_2$ 11) α -Diphenylmethyl- β -Diphenylmethylenhydrazin. Sm. 91° (J. pr. [2] 67, 177 C. 1903 [1] 874).
- 12) 4,4'-Di[4-Methylphenyl]azobenzol. Sm. 260° (C. 1904 [1] 1491).
- $C_{26}H_{22}N_4$ *1) anti- α - β -Di[Diphenylhydrazon]- α - β -Diphenyläthan (B. 36, 62 C. 1903 [1] 451).
- *3) α - β -Di[Benzylidenamido]- α - β -Diphenylhydrazin. Sm. 187—187,5° (179—181°) (B. 36, 84 C. 1903 [1] 452; G. 33 [2] 54 C. 1903 [2] 1057).
- *4) Dehydrobenzalphenylhydrazon. Sm. 203—205° (G. 33 [2] 55 C. 1903 [2] 1057).
- *9) 4,4'-Di[Phenylhydrazonmethyl]biphenyl. Sm. 274° (A. 332, 76 C. 1904 [2] 43).
- $C_{26}H_{22}N_6$ 2) 3,3'-Di[Phenylhydrazonmethyl]azobenzol. Sm. 255° (Bl. [3] 31, 453 C. 1904 [1] 1498).
- 3) 4,4'-Di[Phenylhydrazonmethyl]azobenzol. Sm. 278,5° (Bl. [3] 31, 454 C. 1904 [1] 1498).
- $C_{26}H_{24}O_4$ C 78,0 — H 6,0 — O 16,0 — M. G. 400.
- 1) 1',6'-Dimethyläther d. 4-Keto-1-Oxy-2-Phenyl-1,6-Di[4-Oxyphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 207° (Am. 31, 152 C. 1904 [1] 807).
- $C_{26}H_{24}O_5$ C 75,0 — H 5,8 — O 19,2 — M. G. 416.
- 1) 3',3'-Dimethyläther-6-Aethyläther d. 6-Oxy-2-Phenyl-3-[3,4-Dioxybenzyliden]-2,3-Dihydro-1,4-Benzpyron. Sm. 145—146° (B. 37, 3170 C. 1904 [2] 1059).
- $C_{26}H_{24}O_6$ 7) 3',3',7,8-Tetramethyläther d. 7,8-Dioxy-2-Phenyl-3-[3,4-Dioxybenzyliden]-2,3-Dihydro-1,4-Benzpyron. Sm. 196° (B. 37, 3171 C. 1904 [2] 1059).
- $C_{26}H_{24}O_9$ C 65,0 — H 5,0 — O 30,0 — M. G. 480.
- 1) Tetraacetat d. Ononetin. Sm. 119—120° (M. 24, 142 C. 1903 [1] 1033).
- $C_{26}H_{24}N_2$ 4) α - β -Di[Diphenylmethyl]hydrazin. Sm. 133°. HCl (J. pr. [2] 67, 180 C. 1903 [1] 875).
- 5) Verbindung (aus 2-Methylindol u. 1-Methylbenzol-4-Carbonsäurealdehyd). Sm. 217—218° (B. 36, 4327 C. 1904 [1] 462).
- $C_{26}H_{24}N_4$ 5) Verbindung (aus C-Acetylphenylhydroresorcin). Sm. 176—180° (B. 37, 3383 C. 1904 [2] 1219).
- $C_{26}H_{24}N_6$ 2) 1,5-Diamido-2,4-Di[1-Amido-2-Naphtylamido]benzol. 4 HCl (B. 37, 3889 C. 1904 [2] 1654).
- $C_{26}H_{25}N_3$ C 82,3 — H 6,6 — N 11,1 — M. G. 379.
- 1) α -Imido- α -[4-Dimethylamidophenyl]- α -[4-p-Methylphenylamido-1-Naphtyl]methan. Sm. 164—165°. HCl (B. 37, 1907 C. 1904 [2] 116).
- $C_{26}H_{26}O_8$ 3) Harz (aus Klebwachs). Sm. 66° (R. 22, 141 C. 1903 [2] 124).
- $C_{26}H_{28}O_8$ C 80,4 — H 7,2 — O 12,4 — M. G. 388.
- 1) Methyl ester d. 4-Oxy-2-Methyl-5-Isopropyltriphenylessigmethyläthersäure. Sm. 145—146° (B. 37, 669 C. 1904 [1] 953).
- 2) Methyl ester d. 4-Oxy-3-Methyl-6-Isopropyltriphenylessigmethyläthersäure. Sm. 137—138° (B. 37, 670 C. 1904 [1] 953).
- $C_{26}H_{28}O_9$ 2) bim. o-Cumaryläthersäure. Sm. 236° (B. 37, 1385 C. 1904 [1] 1344).
- $C_{26}H_{28}O_{10}$ C 62,4 — H 5,6 — O 32,0 — M. G. 500.
- 1) Diacetat d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinontetraäthyläther. Sm. 230—235° (D.R.P. 151724 C. 1904 [1] 1587).
- $C_{26}H_{30}O_3$ C 80,0 — H 7,7 — O 12,3 — M. G. 390.
- 1) Methyläther d. α - ϵ -Diketo- α - β - δ - ϵ -Tetraphenyl- γ -[4-Oxyphenyl]-pentan. Sm. 233—234° (B. 35, 3972 C. 1903 [1] 31).
- $C_{26}H_{30}O_4$ C 76,8 — H 7,4 — O 15,8 — M. G. 406.
- 1) Menthylester d. β -Benzoxyl- α -Phenylakrylsäure. Fl. (Soc. 81, 1497 C. 1903 [1] 153).
- $C_{26}H_{30}O_6$ 4) Eudesmin. Sm. 99° (C. 1897 [1] 170). — *III, 497.
- 5) Triäthylester d. Säure $C_{26}H_{18}O_6$. Sd. 195°₁₂ (M. 24, 85 C. 1903 [1] 769).

- $C_{26}H_{32}O_6$ C 70,9 — H 7,3 — O 21,8 — M. G. 440.
 1) bim. o-Cumarpropyläthersäure. Sm. 254° (B. 37, 1385 C. 1904 [1] 1344).
 2) bim. o-Cumarisopropyläthersäure. Sm. 264° (B. 37, 1385 C. 1904 [1] 1344).
- $C_{26}H_{32}O_7$ C 68,4 — H 7,0 — O 34,6 — M. G. 456.
 1) Monoäthyläther d. Dihydroflavaspidsäurexanthen. Sm. 236° (A. 329, 317 C. 1904 [1] 799).
- $C_{26}H_{64}O_8$ 2) Globulariasäure. Sm. 228—230° u. Zers. (Ar. 241, 294 C. 1903 [2] 514).
 C. 65,8 — H 7,2 — O 27,0 — M. G. 474.
 1) Dihydroflavaspidäthyläthersäure. Sm. 198—200° (A. 329, 319 C. 1904 [1] 799).
- $C_{26}H_{36}O_2$ C 82,1 — H 9,5 — O 8,4 — M. G. 380.
 1) Benzoat d. Spongosterin. Sm. 128° (H. 41, 115 C. 1904 [1] 996).
- $C_{26}H_{36}O_2$ 2) Verbindung (aus *Asclepias syriaca* L.). Sm. 83—84° (J. pr. [2] 68, 413 C. 1904 [1] 105).
- $C_{26}H_{40}O$ *1) Ergosterin. Sm. 154° (M. 25, 542 C. 1904 [2] 909).
 $C_{26}H_{40}O_2$ 2) Acetat d. Alstol. Sm. 200° (B. 37, 4112 C. 1904 [2] 1656).
 $C_{26}H_{42}O$ *1) Lupeol. Sm. 211—212° (213°) (H. 41, 474 C. 1904 [1] 1652; B. 37, 3442 C. 1904 [2] 1307; B. 37, 4105 C. 1904 [2] 1655).
- $C_{26}H_{43}Cl$ *1) Cholesterylchlorid. Sm. 96° (B. 37, 3102 C. 1904 [2] 1535).
 $C_{26}H_{44}O$ *1) Cholesterin. Oxalat (M. 24, 663 C. 1903 [2] 1236).
 *5) Phytosterin. Sm. 132,5—133° (C. 1903 [2] 125; B. 36, 1053 C. 1903 [1] 1148).
- 11) Betasterin. Sm. 117° (B. 36, 975 C. 1903 [1] 1016).
 12) Hefcholesterin + H_2O . Sm. 159° (H. 38, 12 C. 1903 [1] 1429).
 13) Alkohol + $\frac{1}{2}H_2O$ (aus Sesamöl) (G. 33 [2] 259 C. 1904 [1] 46).
 14) Verbindung + H_2O (aus Olivenöl). Sm. 134° (wasserfrei) (C. 1903 [1] 93).
- $C_{26}H_{50}O_4$ 2) Dilaurinat d. $\alpha\beta$ -Dioxyäthan. Sm. 54°; Sd. 188° (B. 36, 4340 C. 1904 [1] 433).
- 26 III —
- $C_{26}H_{16}O_3N$ C 80,2 — H 3,9 — O 12,3 — N 3,6 — M. G. 389.
 1) β -Naphtholonaphthophenoxazon. Sm. oberh. 360° (B. 36, 1814 C. 1903 [2] 207).
- $C_{26}H_{16}O_6N_4$ 2) 1,5-Di[4-Nitrophenylamido]-9,10-Anthrachinon (C. 1903 [1] 722).
 $C_{26}H_{16}O_7N_6$ C 59,5 — H 3,0 — O 21,4 — N 16,0 — M. G. 524.
 1) 5-Nitro-2-[4-Nitrophenyl]-1-[4-p-Nitrobenzoylamidophenyl]-benzimidazol. Sm. 299—300° (B. 37, 1073 C. 1904 [1] 1273).
- $C_{26}H_{16}N_2S$ 1) Sulfid d. 5-Merkaptoakridin. Sm. 267° (J. pr. [2] 68, 85 C. 1903 [2] 446).
- $C_{26}H_{17}O_4N$ 3) Hydrochinonphtaleinänilid. Sm. 305° (B. 36, 2960 C. 1903 [2] 1006).
 $C_{26}H_{17}O_4N_3$ C 71,7 — H 3,9 — O 14,7 — N 9,7 — M. G. 435.
 1) 4-[4-Nitrophenyl]-3,3'-Dioxy-2,2'-Binaphtyl (C. r. 138, 1618 C. 1904 [2] 338).
- $C_{26}H_{18}OBr_4$ 1) Aether d. 4,4'-Dibrom- α -Oxydiphenylmethan. Sm. 155—156° (Am. 30, 460 C. 1904 [1] 377).
- $C_{26}H_{18}O_2N_2$ *5) 3,3'-Dibenzoylazobenzol. Sm. 154—155° (C. 1903 [2] 112).
 7) 1,5-Di[Phenylamido]-9,10-Anthrachinon. Sm. 180—190° (C. 1903 [1] 721).
 8) $\alpha\beta$ -Dibenzoyl- $\alpha\beta$ -Diphenylhydrazin. Sm. 161—162° (C. r. 136, 1554 C. 1903 [2] 359).
- $C_{26}H_{16}O_3N_2$ 2) 2,4[oder 3,4]-Di[Phenylamido]-1-Oxy-9,10-Anthrachinon (D. R. P. 86150, 86539, 114199). — *III, 300.
 3) 3,3'-Dibenzoylazoxybenzol. Sm. 127° (C. 1903 [2] 112).
- $C_{26}H_{18}O_4N_2$ 2) Dibenzoat d. 3,3'-Dioxyazobenzol. Sm. 129° (J. pr. [2] 67, 267 C. 1903 [1] 1221).
- $C_{26}H_{18}O_4N_6$ *2) 3,6-Diphenyl-1,4-Di[4-Nitrophenyl]-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 305° (B. 36, 356 C. 1903 [1] 575).
- $C_{26}H_{18}O_4S_2$ 1) Verbindung (aus 2,5-Dimerkapto-1,4-Diketohexahydrobenzoldibenzyläther). Sm. 119—121° (A. 336, 151 C. 1904 [2] 1300).
- $C_{26}H_{20}ON_2$ 7) α -Phenylimido- α -Phenylbenzoylamido- α -Phenylmethan. Sm. 171° (Am. 30, 36 C. 1903 [2] 363).

- $C_{26}H_{20}ON_2$ 8) N-Benzyl-o-Methylechinophtalin. Sm. 208° (B. 36, 3919 C. 1904 [1] 98).
- $C_{26}H_{20}ON_4$ 6) 3,3'-Di[Phenylimidomethyl]azoxybenzol. Sm. 125° (B. 36, 3471 C. 1903 [2] 1269).
- $C_{26}H_{20}O_3N_2$ *3) 2,4'-Di[2-Oxybenzylidenamido]biphenyl. Sm. 151—152° (B. 36, 4090 C. 1904 [1] 269).
- *5) 4,4'-Di[Benzoylamido]biphenyl. Sm. 352° (B. 36, 137 C. 1903 [1] 507).
- *6) Phthalyl-1-Methylindol (B. 37, 1225 C. 1904 [1] 1272).
- 12) 3,3'-Di[Benzoylamido]biphenyl (C. 1903 [2] 112).
- 13) Indophthalon. Sm. 212°. HCl, K (B. 37, 1221 C. 1904 [1] 1272).
- $C_{26}H_{20}O_3N_2$ 5) Phenylhydrazon d. Verb. $C_{20}H_{14}O_3$. Sm. 232° (B. 36, 3233 C. 1903 [2] 941).
- $C_{26}H_{20}O_4N_6$ *1) Di-3-Nitrobenzaldiphenylhydrotetrazon. Sm. 166° (B. 36, 94 C. 1903 [1] 453; G. 34 [2] 278 C. 1904 [2] 1387).
- *2) Dehydro-3-Nitrobenzalphenylhydrazon. Sm. 216—217° (B. 36, 95 C. 1903 [1] 453; G. 34 [2] 279 C. 1904 [2] 1387).
- *3) isom. Dehydro-3-Nitrobenzalphenylhydrazon. Sm. 265° (B. 36, 97 C. 1903 [1] 453; G. 34 [2] 280 C. 1904 [2] 1387).
- 5) α -[Benzyliden]- β -[4-Nitrophenyl]- β -[α -4-Nitrophenylhydrazon-benzyl]hydrazin. Sm. 238° (B. 36, 354 C. 1903 [1] 575).
- 6) 4,6-Dinitro-1,3-Di[1-Amido-2-Naphtylamido]benzol. Sm. 300° (B. 37, 3888 C. 1904 [2] 1654).
- 7) isom. Verbindung (aus 3-Nitrobenzaldehydphenylhydrazon). Sm. 212 bis 213° (B. 36, 96 C. 1903 [1] 453).
- $C_{26}H_{20}N_2S$ 1) Verbindung (aus Benzanilidechlorid u. Natriumthiobenzanilid). Sm. 202 bis 204° (C. 1904 [1] 1003).
- $C_{26}H_{20}N_4S$ *1) 2,5-Diphenylimido-3,4-Diphenyltetrahydro-1,3,4-Thiadiazol. Sm. 135—136° (B. 36, 3131 C. 1903 [2] 1070).
- $C_{26}H_{21}ON$ 3) 2-Oxy-1-(α -Cinnamylamidobenzyl)naphtalin. Sm. 174° (G. 33 [1] 33 C. 1903 [1] 926).
- 4) ϵ -Keto- ϵ -[4-Cinnamylidenamidophenyl]- α -Phenyl- $\alpha\gamma$ -Pentadien. Sm. 191° (B. 37, 394 C. 1904 [1] 657).
- $C_{26}H_{21}ON_3$ 3) α -Phenylimido- α -[β -Benzoyl- α -Phenylhydrazido]- α -Phenylmethan. Sm. 136° (Am. 31, 583 C. 1904 [2] 109).
- 4) α -Nitroso- α -Diphenylmethyl- α -Diphenylmethylenhydrazin. Sm. 80 bis 81° u. Zers. (J. pr. [2] 67, 178 C. 1903 [1] 874).
- 5) 3'-Amido-2'-Methyl-9-[4-Amidophenyl]-1,2-Naphtakridin. Sm. 313°. HCl, HNO₃ (C. 1903 [1] 883).
- $C_{26}H_{22}ON_2$ 5) Methyläther d. α -Phenylazo-4-Oxytriphenylmethan. Sm. 115° (B. 36, 2790 C. 1903 [2] 882).
- 6) Methyläther d. α -[2-Oxyphenyl]imido- α -Diphenylamido- α -Phenylmethan. Pikrat (B. 37, 2684 C. 1904 [2] 521).
- $C_{26}H_{22}ON_6$ 2) 3,3'-Di[Phenylhydrazonmethyl]azoxybenzol. Sm. 198° (Am. 28, 480 C. 1903 [1] 328; B. 36, 3471 C. 1903 [2] 1269).
- $C_{26}H_{22}O_2N_2$ 9) 3,4-Methylenäther d. α -[3,4-Dioxyphenyl]- $\alpha\alpha$ -Di[2-Methyl-3-Indolyl]methan. Sm. 213° (B. 36, 4329 C. 1904 [1] 463; B. 37, 323 C. 1904 [1] 668).
- $C_{26}H_{22}O_2N_4$ 6) Monoäthyläther d. 4,4'-Di[4-Oxyphenylazo]biphenyl. Sm. 272° (B. 36, 2974 C. 1903 [2] 1031).
- $C_{26}H_{22}O_3N_2$ 3) Anhydrophenylhydrazondiphenylketoktolaktonsäure. Sm. 50° (A. 334, 137 C. 1904 [2] 890).
- $C_{26}H_{22}O_3S$ 1) Methyläther d. α -Phenylsulfon-4-Oxytriphenylmethan. Sm. 165 bis 166° (B. 36, 2791 C. 1903 [2] 882).
- $C_{26}H_{22}O_3N_2$ 4) Phenylhydrazon d. Verb. $C_{20}H_{14}O_3$. Sm. 241° (B. 36, 3232 C. 1903 [2] 941).
- $C_{26}H_{22}O_6S_2$ 1) Di[4-Methylbenzolsulfonat] d. 2,2'-Dioxybiphenyl. Sm. 171° (A. 332, 63 C. 1904 [2] 42).
- $C_{26}H_{22}N_2Cl_2$ 2) 1,3-Xylylendicholiniumchlorid. 2 + PtCl₄ (B. 36, 1680 C. 1903 [2] 29).
- $C_{26}H_{22}N_4Br_2$ 1) 1,3-Xylylendicholiniumbromid. Sm. 276° u. Zers. + Br₄ (B. 36, 1680 C. 1903 [2] 29).
- 2) 1,4-Xylylendicholiniumbromid. Sm. 306°. + Br₄ (B. 34, 2090).
- $C_{26}H_{22}N_4S_2$ 1) 2,4'-Di[β -Phenylthioureido]biphenyl. Sm. 164° (B. 36, 4093 C. 1904 [1] 270).

- $C_{26}H_{23}ON$ 2) Methyläther d. α -Oxy-4-Phenylamidotriphenylmethan. Sm. 127° (B. 37, 612 C. 1904 [1] 888).
- 3) Methyläther d. α -Phenylamido-4-Oxytriphenylmethan. Sm. 138 bis 139° (B. 37, 608 C. 1904 [1] 887).
- $C_{26}H_{23}ON_3$ 2) α -Nitroso- α - β -Di[Diphenylmethyl]hydrazin. Sm. 135° u. Zers. (J. pr. [2] 67, 186 C. 1903 [1] 875).
- 3) Leukobase d. 3'-Amido-2'-Methyl-9-[4-Acetylamidophenyl]-1,2-Naphhtakridin (C. 1903 [1] 883).
- $C_{26}H_{24}ON_2$ 3) 4-Dimethylamidophenyl-4-[4-Methylphenyl]amido-1-Naphtylketon. Sm. 219° (221°) (D.R.P. 79390; B. 37, 1902 C. 1904 [2] 115). — *III, 195.
- 4) 4-Dimethylamidophenyl-9-[4-Methylphenyl]amidonaphtylketon. Sm. 121° (C. 1903 [1] 87).
- 5) Verbindung (aus 2-Methylindol u. 4-Methoxybenzaldehyd). Sm. 211 bis 212° (B. 36, 4328 C. 1904 [1] 462).
- $C_{26}H_{24}O_2N_2$ 8) 1,3-Xylendichinoliniumhydroxyd. 2 Chlorid + PtCl₄, 2 Bromid + Br₂, 2 Pikrat (B. 36, 1680 C. 1903 [2] 29).
- $C_{26}H_{24}O_6N_2$ 2) Diäthylester d. $\alpha\delta$ -Di[Phtalylamido]butan- $\alpha\alpha$ -Dicarbonsäure. Sm. 125° (C. 1903 [2] 34).
- $C_{26}H_{24}O_{10}N_2$ 1) C 59,5 — H 4,6 — O 30,5 — N 5,3 — M. G. 524.
- 1) Diäthylester d. Oxalyldi[4-Amidobenzoylbrenztraubensäure]. Sm. 151° (B. 36, 2699 C. 1903 [2] 952).
- $C_{26}H_{25}O_5N$ 2) Triäthyläther d. Hydrochinonphtalein- α -Oxim. Sm. 158—159° (B. 36, 2962 C. 1903 [2] 1006).
- $C_{26}H_{26}O_6N_3$ 2) Salicylat d. Cinchonidin. Sm. 65—70° (D. R.R. 137207 C. 1903 [1] 110).
- $C_{26}H_{26}O_4N_6$ * 1) 1,4-Di[2,5-Diacetyldiamidophenyl]-1,4-Azophenylen (B. 37, 2908 C. 1904 [2] 1458).
- $C_{26}H_{26}O_6N_2$ 2) Diäthylester d. 1-Dibenzoylamido-2,5-Dimethylpyrrol-3,4-Dicarbonsäure. Sm. 132—133° (B. 35, 4315 C. 1903 [1] 336).
- $C_{26}H_{26}O_8N_4$ C 59,8 — H 5,0 — O 24,5 — N 10,7 — M. G. 522.
- 1) Diäthylester d. Dibenzoylbisdiazoacetessigsäure. Sm. 150° (G. 34 [1] 191 C. 1904 [1] 1333).
- $C_{26}H_{27}O_4N$ 5) Triäthyläther d. Phenolphtaleinoxim. Sm. 142—143° (B. 36, 2966 C. 1903 [2] 1007).
- $C_{26}H_{27}O_7N_3$ C 63,3 — H 5,5 — O 22,7 — N 8,5 — M. G. 493.
- 1) Salipyrinorthoform. Sm. 76° (A. 325, 318 C. 1903 [1] 770).
- 2) isom. Salipyrinorthoform. Sm. 75—77° (A. 325, 319 C. 1903 [1] 770).
- $C_{26}H_{28}O_5N_2$ C 75,0 — H 6,7 — O 11,5 — N 6,7 — M. G. 416.
- 1) α ,2-Laktone d. 4',4''-Di[Dimethylamido]- α ,4-Dioxytriphenylmethan-4-Aethyläther-2-Carbonsäure. Sm. 167—168° (A. 329, 76 C. 1903 [2] 1440).
- $C_{26}H_{28}O_5S_2$ 1) ϵ -Keto- $\alpha\gamma$ -Dibenzylsulfon- α -Phenylhexan. Sm. 265° (B. 37, 509 C. 1904 [1] 884).
- $C_{26}H_{29}O_2N_3$ 4) Aethyläther d. 5-Oxy-3-Keto-1,1-Di[4-Dimethylamidophenyl]-2,3-Dihydropseudoisindol. Sm. 242—244° (A. 329, 77 C. 1903 [2] 1440).
- 5) Inn. Anhydrid d. α -Oxy-4',4''-Di[Dimethylamido]triphenylmethan-2-Amidoameisensäureäthylester. Sm. 172—174° (B. 36, 2786 C. 1903 [2] 881).
- $C_{26}H_{30}O_9N_2$ 2) 4',4''-Di[Dimethylamido]-4-Oxytriphenylmethan-4-Aethyläther-2-Carbonsäure. Sm. 197—198° (A. 329, 73 C. 1903 [2] 1440).
- $C_{26}H_{30}O_6S_3$ 1) $\beta\beta\delta$ -Tribenzylsulfonpentan. Sm. 187—188° (B. 37, 505 C. 1904 [1] 882).
- $C_{26}H_{31}O_2N_3$ 2) Aethylester d. 4',4''-Di[Dimethylamido]triphenylmethan-2-Amidoameisensäure. Sm. 131—132° (u. 149°) (B. 36, 2785 C. 1903 [2] 881).
- 3) Amid d. 4',4''-Di[Dimethylamido]-4-Oxytriphenylmethan-4-Aethyläther-2-Carbonsäure. Sm. 191—192° (A. 329, 74 C. 1903 [2] 1440).
- $C_{26}H_{31}O_4N$ 2) 1-Menthylester d. β -Phenylamidoformoxyl- α -Phenylakrylsäure. Sm. 235—237° (Soc. 81, 1498 C. 1903 [1] 153). — *III, 335.
- $C_{26}H_{32}O_8N_6$ C 59,5 — H 6,1 — O 18,3 — N 16,0 — M. G. 524.
- 1) s-Di[β -Benzoylamidoacetylamidobutyl]hydrazin. Sm. 264° (J. pr. [2] 70, 210 C. 1904 [2] 1460).
- $C_{26}H_{32}O_8N_2$ 2) Tetraäthylester d. Biphenyl-4,4'-Di[Amidomalonsäure]. Sm. 138° (C. 1903, [1] 35).

- $C_{26}H_{33}ON_3$ *3) Methyläther d. α -Oxytri[4-Dimethylamidophenyl]methan. Sm. 159 bis 160° (B. 37, 2875 C. 1904 [2] 778).
 $C_{26}H_{33}O_8N$ C 64,0 — H 6,8 — O 26,3 — N 2,9 — M. G. 487.
 $C_{26}H_{34}O_2N_4$ 1) Homonarceinäthylester. HCl (D. R. P. 71797). — *II, 1219.
 C 71,9 — H 7,8 — O 7,4 — N 12,9 — M. G. 434.
 2) Menthylester d. 4-Methylphenylsulfazo-4-Methylphenylhydrazon-essigsäure. Sm. 131—136° (Soc. 83, 1125 C. 1903 [2] 24, 791).
 $C_{26}H_{36}O_3N_2$ C 73,6 — H 8,5 — O 11,3 — N 6,6 — M. G. 424.
 1) Dipropylderivat d. Yohimboasäure. Sm. 135—136° (B. 37, 1764 C. 1904 [1] 1527).
 $C_{26}H_{37}O_7N$ 2) Diäthyläther d. N-Acetyl-di[4-Oxy-2-Methyl-5-Isopropylphenyl]-amin. Sm. 89—90° (B. 36, 2888 C. 1903 [2] 875).
 $C_{26}H_{41}ON$ C 81,5 — H 10,7 — O 4,2 — N 3,6 — M. G. 383.
 1) Verbindung (aus Lupeol) oder $C_{27}H_{41}ON$. Sm. 226° (B. 37, 4108 C. 1904 [2] 1655).
 $C_{26}H_{42}OBr_2$ 1) Lupeoldibromid. Sm. 154° (B. 37, 4107 C. 1904 [2] 1655).
 $C_{26}H_{43}O_3N$ *1) Glykoeholsäure (C. 1903 [2] 1242).
 $C_{26}H_{50}N_2Cl_2$ 2) Di[Chlormethylat] d. 1,3-Di[Dipropylamidomethyl]benzol. 2 + PtCl₄ (B. 36, 1678 C. 1903 [2] 29).
 $C_{26}H_{50}N_3Br_2$ 2) Di[Brompropylat] d. 1,3-Di[Dipropylamidomethyl]benzol. Sm. 226° + Br₂ (B. 36, 1677 C. 1903 [2] 29).
 $C_{26}H_{52}O_2N_2$ 2) Di[Propyloxyhydrat] d. 1,3-Di[Dipropylamidomethyl]benzol. 2 Chlorid + PtCl₄, Bromid, Pikrat (B. 36, 1678 C. 1903 [2] 29).
- 26 IV —
- $C_{26}H_{16}O_3NCl$ 1) 6-Chlor-3-Phenylamidofluoran. Sm. 211° (D. R. P. 85885). — *III, 574.
 $C_{26}H_{15}O_{10}N_2S_2$ 1) Diphenylester d. cis- $\alpha\beta$ -Di[4-Nitrophenyl]äthan-2,2'-Disulfonsäure. Sm. 172° (Soc. 85, 1434 C. 1904 [2] 1740).
 2) Diphenylester d. trans- $\alpha\beta$ -Di[4-Nitrophenyl]äthan-2,2'-Disulfonsäure. Sm. 192—192,5° (Soc. 85, 1434 C. 1904 [2] 1740).
 $C_{26}H_{19}O_4NS_2$ 1) 9-Diphenylsulfonamidophenanthen. Sm. 263—264° (B. 36, 2516 C. 1903 [2] 507).
 $C_{26}H_{20}O_2N_2Cl_4$ 1) $\alpha\beta$ -Di[Phenylamido]- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 158° u. Zers. (A. 325, 64 C. 1903 [1] 492).
 $C_{26}H_{20}O_2N_2S_2$ 1) Disulfid d. Diphenylamidothioldameisensäure. Sm. 195—196° (B. 36, 2273 C. 1903 [2] 563).
 $C_{26}H_{21}O_5N_3S$ 1) Phenylamid d. α -Phenylsulfon- α -[4-Benzoxylphenyl]hydrazin- β -Carbonsäure. Sm. 140° (A. 334, 189 C. 1904 [2] 835).
 $C_{26}H_{21}O_6N_3S_2$ 1) Di[2-Naphtylsulfon]histidin. Sm. 149—150° (H. 42, 516 C. 1904 [2] 1290).
 $C_{26}H_{22}O_3N_2Cl_4$ 1) 3-Dimethylamido-6-Diäthylamido-9³,9⁴,9⁵,9⁶-Tetrachlorfluoran. HCl (Bl. [3] 25, 747). — *III, 576.
 $C_{26}H_{22}N_3JS$ 1) Äthyläther d. 5-Jod-3-Merkapto-1,5-Diphenyl-4-[1-Naphtyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 278° (J. pr. [2] 67, 245 C. 1903 [1] 1264).
 2) Äthyläther d. 5-Jod-3-Merkapto-1,5-Diphenyl-4-[2-Naphtyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 208° (J. pr. [2] 67, 245 C. 1903 [1] 1264).
 $C_{26}H_{23}O_4N_2Br_3$ 1) Acetat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Acetylphenylamidomethyl]benzol. Sm. 145° (B. 37, 3907 C. 1904 [2] 1592).
 $C_{26}H_{24}O_3N_4S_2$ 1) Phenylhydrazid d. α -[1-Naphtylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 139—140° (J. pr. [2] 70, 385 C. 1904 [2] 1720).
 2) Phenylhydrazid d. α -[2-Naphtylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 156—157° (J. pr. [2] 70, 385 C. 1904 [2] 1720).
 $C_{26}H_{24}O_4N_2S_2$ *1) 4,4'-Di[Methylphenylsulfonamido]biphenyl. Sm. 189—190° (B. 37, 3772 Ann. C. 1904 [2] 1547).
 3) Di[Methylphenylamid] d. Biphenyl-4,4'-Disulfonsäure. Sm. 187° (A. 332, 59 C. 1904 [2] 41).
 4) 4,4'-Di[4-Methylphenylsulfonamido]biphenyl. Sm. 243° (B. 37, 3772 C. 1904 [2] 1547).
 $C_{26}H_{24}O_3N_2S_4$ 1) Di[2-Naphtylsulfon]cystin. Sm. 214° (H. 38, 558 C. 1903 [2] 390).
 $C_{26}H_{24}O_6N_4S_2$ 1) Säure (aus Diamingoldgelb). Na₂ (B. 36, 2977 C. 1903 [2] 1031).

- $C_{36}H_{25}O_3N_2Br_3$ 1) 1,3-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[4-Methylphenylamidomethyl]benzol. Sm. unter 100° (B. 37, 3911 C. 1904 [2] 1593).
- 2) 3,4-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[2-Methylphenylamidomethyl]benzol. Sm. 193° (B. 37, 3912 C. 1904 [2] 1593).
- 3) 3,4-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[4-Methylphenylamidomethyl]benzol. Sm. $187-188^\circ$ (B. 37, 3911 C. 1904 [2] 1593).
- $C_{36}H_{26}O_4N_2Cl_2$ 1) p-Dichlor-1-[p-Dimethylamido-p-Oxybenzoyl]-2-[p-Diäthylamido-3-Oxybenzoyl]benzol (Bl. [3] 29, 61 C. 1903 [1] 456).
- $C_{36}H_{28}O_5N_2S$ 1) Laurotetaninphenylthioharnstoff. Sm. $211-212^\circ$ (Ar. 236, 616). — *III, 661.
- $C_{36}H_{38}O_2N_2J_2$ 1) Di[Jodmethylat] d. Piperidomethylmorphimethin (B. 36, 1594 C. 1903 [2] 54).
- $C_{36}H_{45}O_7NS$ *1) Taurocholsäure + H_2O . Zers. bei 100° (H. 43, 127).

— 26 V —

- $C_{36}H_{19}O_3NB r P$ 1) 3-Bromphenylmonamid d. Phosphorsäuredi[2-Naphtylester]. Sm. $166,5^\circ$ (A. 326, 234 C. 1903 [1] 867).

C₂₇-Gruppe.

- $C_{27}H_{42}$ *4) α -Cholesteron. Sm. 79° (M. 24, 666 C. 1903 [2] 1236).
- 6) isom. Cholesterilen. Sd. $280-300^{0,55}$ (M. 24, 661 C. 1903 [2] 1236).
- $C_{27}H_{46}$ 2) Verbindung (aus Guttapercha). Sd. $320-360^{0,20}$ (C. 1903 [1] 83).

— 27 II —

- $C_{27}H_{12}O_9$ C 67,5 — H 2,5 — O 30,0 — M. G. 480.
- $C_{27}H_{16}O_3$ 1) Tridioxymylenbenzol (B. 33, 2440, 3085). — *III, 245.
C 83,5 — H 4,1 — O 12,4 — M. G. 388.
- $C_{27}H_{17}N$ 1) Cinnamylidenbiindon. Sm. 243° (B. 34, 3270). — *III, 245.
- *1) 9-Phenyl-1,2,1',2'-Dinaphtakridin. Sm. 297° (B. 36, 592 C. 1903 [1] 724; B. 36, 1030 C. 1903 [1] 1269).
- 2) 9-Phenyl-1,2,2',1'-Dinaphtakridin. Sm. 254° . HBr, HNO_3 (B. 36, 1031 C. 1903 [1] 1270).
- $C_{27}H_{18}O$ *1) Anhydrid d. Phenylidi[2-Oxynaphtyl]methan. Sm. $190-191^\circ$ (G. 33 [1] 26 C. 1903 [1] 926; Soc. 85, 793 C. 1904 [2] 227, 529).
- $C_{27}H_{18}O_2$ 3) Verbindung (aus 4-Oxybenzaldehyd u. β -Naphtol). (Phenyloldinaphtopyran). Sm. 207° (C. r. 137, 859 C. 1904 [1] 103).
- $C_{27}H_{19}N$ C 90,8 — H 5,3 — N 3,9 — M. G. 357.
- 1) 9-Phenyldihydro-1,2,1',2'-Dinaphtakridin. Sm. 230° (B. 36, 591 C. 1903 [1] 724; B. 36, 1029 C. 1903 [1] 1270).
- 2) 9-Phenyldihydro-1,2,2',1'-Dinaphtakridin. Sm. 240° (B. 36, 1030 C. 1903 [1] 1270).
- $C_{27}H_{20}O_3$ 3) Säure (aus α -Oxydiphenyllessigsäure). Ag (B. 29, 740). — *II, 993.
- $C_{27}H_{20}O_{10}$ C 64,3 — H 4,0 — O 31,7 — M. G. 504.
- 1) Tetraacetat d. 2,3,7-Triox-9-[2-Oxyphenyl]fluoron. Sm. 223 bis 224° (B. 37, 2734 C. 1904 [2] 542).
- 2) Tetraacetat d. 2,3,7-Triox-2-[4-Oxyphenyl]fluoron. Sm. 242 bis 243° (B. 37, 2734 C. 1904 [2] 542).
- $C_{27}H_{22}O_2$ 2) Monomethyläther d. 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydroanthracen. Sm. 274° (C. r. 138, 1252 C. 1904 [2] 118).
- 3) Acetat d. 4-Oxytetraphenylmethan. Sm. 175° (B. 37, 661 C. 1904 [1] 952).
- $C_{27}H_{22}O_3$ C 82,2 — H 5,6 — O 12,2 — M. G. 394.
- 1) 4-Keto-1-Acetyl-3-Benzoyl-2,6-Diphenyl-1,2,3,4-Tetrahydrobenzol. Sm. 183° (B. 36, 2132 C. 1903 [2] 366).
- 2) Anhydrid d. $\alpha\alpha$ -Diphenyl- δ -[4-Isopropylphenyl]- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Sm. $139-140^\circ$ (B. 37, 2662 C. 1904 [2] 523).

- $C_{27}H_{22}O_3$ 3) 5-Acetat d. 5-Oxy-1,2-Diphenyl-3-[4-Oxyphenyl]benzol-3'-Methyl-äther. Sm. 141—142° (*Am.* 31, 147 *C.* 1904 [1] 806).
C 89,7 — H 6,4 — N 3,9 — M. G. 361.
- $C_{27}H_{23}N$ 1) 9-Phenyl-9-[4-Dimethylamidophenyl]fluoren. Sm. 141,5° (*B.* 37, 76 *C.* 1904 [1] 519).
2) 9-[4-Methylamido-3-Methylphenyl]-9-Phenylfluoren. Sm. 190,5°. HCl (*B.* 37, 77 *C.* 1904 [1] 519).
- $C_{27}H_{24}O$ 2) α -Oxy- $\alpha\alpha\gamma\gamma$ -Tetraphenylpropan. Sm. 95—96° (*Am.* 31, 651 *C.* 1904 [2] 446).
3) 5-Oxy-1,2-Diphenyl-3-[4-Isopropylphenyl]benzol. Sm. 155° (*Am.* 31, 146 *C.* 1904 [1] 806).
C 78,6 — H 5,8 — O 15,5 — M. G. 412.
- $C_{27}H_{24}O_4$ 1) lab. $\gamma\epsilon$ -Dibenzoyl- $\beta\zeta$ -Diketo- δ -Phenylheptan. Sm. 121° (*B.* 36, 2131 *C.* 1903 [2] 366).
2) stab. $\gamma\epsilon$ -Dibenzoyl- $\beta\zeta$ -Diketo- δ -Phenylheptan. Sm. 195° (*B.* 36, 2131 *C.* 1903 [2] 366).
3) $\alpha\alpha$ -Diphenyl- δ -[4-Isopropylphenyl]- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Sm. 229° u. Zers. $Na_2 + 3H_2O$ (*B.* 37, 2661 *C.* 1904 [2] 523).
- $C_{27}H_{24}O_9$ 2) Tribenzoat d. Chitose. Sm. 116° (*B.* 35, 4022 *C.* 1903 [1] 391).
 $C_{27}H_{24}O_{13}$ C 58,3 — H 4,3 — O 37,4 — M. G. 556.
- 1) Aleotorinsäure + 2H₂O. Sm. 220° wasserfrei (*J. pr.* [2] 68, 17 *C.* 1903 [2] 511).
- $C_{27}H_{24}N_2$ 6) γ -Phenylhydrazon- $\alpha\alpha\gamma$ -Triphenylpropan. Sm. 137° (*Am.* 31, 650 *C.* 1904 [2] 446).
7) Verbindung (aus 2-Methylindol u. Zimmtaldehyd). Sm. 206° (*B.* 36, 4329 *C.* 1904 [1] 462).
C 84,8 — H 6,8 — O 8,4 — M. G. 382.
- $C_{27}H_{26}O_3$ 1) 1-Oxy-4-Keto-1,6-Diphenyl-2-[4-Isopropylphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 231° (*Am.* 31, 144 *C.* 1904 [1] 806).
- $C_{27}H_{26}O_6$ *3) Tribenzyliden-d-Mannit. Sm. 213—214° (*B.* 37, 299 *C.* 1904 [1] 647).
 $C_{27}H_{29}N$ 3) Di[4-Dimethylamidophenyl]-4-Amido-1-Naphtylmethan. Sm. 221 bis 222° (*C.* 1903 [1] 87; *B.* 37, 1908 *C.* 1904 [2] 115).
C 59,3 — H 5,5 — O 35,2 — M. G. 546.
- $C_{27}H_{30}O_{12}$ 1) Verbindung (aus Lariciresinol). Sm. 140—141° (*M.* 24, 210 *C.* 1903 [2] 38).
2) Oxyapinmethyläther (*B.* 33, 2337; *A.* 318, 136). — *III, 431.
C 53,1 — H 4,9 — O 42,0 — M. G. 610.
- $C_{27}H_{30}O_{15}$ 1) Globulariacitrin. Sm. 190° u. Zers. (*Ar.* 241, 297 *C.* 1903 [2] 515).
 $C_{27}H_{30}O_{16}$ 2) Rutin + 2H₂O (Sophorin). Sm. 188—190° (*Ar.* 242, 212 *C.* 1904 [1] 1651; *Ar.* 242, 225 *C.* 1904 [1] 1651; *Ar.* 242, 547 *C.* 1904 [2] 1405; *Ar.* 242, 556 *C.* 1904 [2] 1405).
C 79,0 — H 7,3 — N 13,7 — M. G. 410.
- $C_{27}H_{30}N_4$ 1) Di[4-Dimethylamidophenyl]-3,4-Diamido-1-Naphtylmethan. Sm. 233—234° (*C.* 1903 [1] 88; *B.* 37, 1909 *C.* 1904 [2] 115).
C 74,0 — H 6,8 — N 19,2 — M. G. 438.
- $C_{27}H_{30}N_6$ 1) 2,4,6-Tri[4-Dimethylamidophenyl]-1,3,5-Triazin. Sm. 357° (*B.* 37, 1738 *C.* 1904 [1] 1599).
C 87,1 — H 8,6 — O 4,3 — M. G. 372.
- $C_{27}H_{32}O$ 1) 3-Keto-2,4-Di[4-Isopropylphenyl]-1-Methylhexahydrobenzol. Sd. 300°₁₀ (*C. r.* 136, 116).
C 75,9 — H 7,7 — N 16,4 — M. G. 427.
- $C_{27}H_{33}N_5$ 1) 4,4',4''-Tri[Dimethylamido]hydrobenzamid. Sm. 193°. 3HCl, Pikrat (*B.* 37, 1736 *C.* 1904 [1] 1598).
C 74,0 — H 7,8 — O 18,2 — M. G. 438.
- $C_{27}H_{34}O_5$ 1) Anhydrostrophantidinsäurelaktone + $\frac{1}{2}H_2O$. Sm. 345° (*B.* 31, 539; 33, 2085). — *III, 477.
- $C_{27}H_{34}O_8$ 2) Diacetat d. Lariciresinoldiäthyläther. Sm. 113° (*M.* 23, 1024 *C.* 1903 [1] 288).
C 79,4 — H 8,8 — O 11,8 — M. G. 408.
- $C_{27}H_{36}O_3$ 1) α -Oxy- α -Phenyl- $\alpha\alpha$ -Dicamphorylmethan. Sm. 155—156° (*B.* 36, 2640 *C.* 1903 [2] 627).
- $C_{27}H_{40}O_2$ *1) Oxycholestenon (*C.* 1903 [1] 815).
3) Careleresen. Sm. 75—77° (*Ar.* 241, 156 *C.* 1903 [1] 1029).

- $C_{27}H_{40}O_4$ C 75,7 — H 9,3 — O 15,0 — M. G. 428.
 1) Anhydrid d. Säure $C_{27}H_{42}O_5$ (aus Cholestanonol). Sm. 172° (B. 36, 3758 C. 1903 [2] 1418).
- $C_{27}H_{42}O_2$ *1) α -Oxycholestenol (C. 1903 [1] 815).
 3) Cholestandion. Sm. 169° (B. 36, 3755 C. 1903 [2] 1418; B. 37, 2027 C. 1904 [2] 184).
- $C_{27}H_{42}O_3$ *1) Oxycholestendiol (C. 1903 [1] 815).
 $C_{27}H_{42}O_4$ C 75,3 — H 9,8 — O 14,9 — M. G. 430.
 1) Anhydrid d. Säure $C_{27}H_{44}O_5$. Sm. 212° (B. 37, 3705 C. 1904 [2] 1699).
- $C_{27}H_{42}O_5$ 2) Säure (aus Cholestanonol oder Cholestandion). Sm. 217—219°. Mg (B. 36, 3756 C. 1903 [2] 1418).
 3) isom. Säure (aus d. Säure $C_{27}H_{44}O_5$). Sm. 255° (B. 37, 3706 C. 1904 [2] 1699).
- $C_{27}H_{42}O_6$ C 65,6 — H 8,5 — O 25,9 — M. G. 494.
 1) Säure (aus der Säure $C_{27}H_{44}O_5$). Sm. 174° (B. 37, 3707 C. 1904 [2] 1699).
- $C_{27}H_{44}O$ 4) Cholestenon. Sm. 78° (B. 37, 3099 C. 1904 [2] 1535).
 5) Euphorbon. Sm. 113—114° (Ar. 241, 227 C. 1903 [2] 119).
 C 81,0 — H 11,0 — O 8,0 — M. G. 400.
- $C_{27}H_{44}O_2$ 1) Cholestanonol. Sm. 142—143° (140°) (C. 1903 [1] 814; B. 36, 3754 C. 1903 [2] 1417; M. 24, 654 C. 1903 [2] 1235).
- $C_{27}H_{44}O_4$ 2) Säure (aus Cholestandion). Sm. 185—217°. Na (B. 37, 2029 C. 1904 [2] 184).
 3) Säure (aus Cholesterin). Sm. 297° (corr.). Ag₂ (B. 36, 3179 C. 1903 [2] 935; B. 37, 3096 C. 1904 [2] 1534).
 C 72,3 — H 9,8 — O 17,9 — M. G. 448.
- $C_{27}H_{44}O_5$ 1) Säure + H₂O (aus d. Säure $C_{27}H_{43}O_4Cl$). Sm. 239—240° wasserfrei (B. 37, 3705 C. 1904 [2] 1699).
- $C_{27}H_{46}O$ *1) Cholesterin (C. 1903 [1] 918, 980).
 $C_{27}H_{46}O_2$ C 80,2 — H 11,9 — O 7,9 — M. G. 404.
- $C_{27}H_{52}O_4$ 1) Casimirol. Sm. 207° (Ar. 241, 173 C. 1903 [2] 125).
 C 73,6 — H 11,8 — O 14,6 — M. G. 440.
 1) Acetylcebreonsäure. Na (H. 43, 27 C. 1904 [2] 1550).

— 27 III —

- $C_{27}H_{16}O_4N_2$ C 75,0 — H 3,7 — O 14,8 — N 6,5 — M. G. 432.
 1) Benzoat d. Oxydiphenylbenzobisoxazol. Sm. 291° (B. 37, 122 C. 1904 [1] 586).
- $C_{27}H_{16}O_5N_2$ C 72,3 — H 3,6 — O 17,9 — N 6,2 — M. G. 448.
 1) Anhydrid d. p-Dinitrophenyl-di[2-Oxynaphtyl]methan. Sm. 252 bis 253° u. Zers. (Soe. 85, 794 C. 1904 [2] 227, 529).
- $C_{27}H_{16}O_{11}N_4$ C 56,6 — H 2,8 — O 30,8 — N 9,8 — M. G. 572.
 1) Di[2-Nitrobenzoat] d. 4-[2-Nitrobenzoyl]amido-1,3-Dioxybenzol. Sm. 128° (B. 35, 4204 C. 1903 [1] 146).
 2) Di[3-Nitrobenzoat] d. 4-[3-Nitrobenzoyl]amido-1,3-Dioxybenzol. Sm. 231° (B. 35, 4203 C. 1903 [1] 146).
 3) Di[4-Nitrobenzoat] d. 4-[4-Nitrobenzoyl]amido-1,3-Dioxybenzol. Sm. 266° (B. 35, 4203 C. 1903 [1] 146).
- $C_{27}H_{17}O_5N$ C 74,5 — H 3,9 — O 18,4 — N 3,2 — M. G. 435.
 1) Dibenzoat d. 5,6-Dioxy-1-Phenylbenzoxazol. Sm. 144° (B. 37, 118 C. 1904 [1] 586).
- $C_{27}H_{18}O_2N_2$ 2) ms-[3-Nitrophenyl]dihydro- β -Naphtakridin. Sm. 270° (B. 36, 593 C. 1903 [1] 724).
 3) ms-[4-Nitrophenyl]dihydro- β -Naphtakridin. Sm. 291° (B. 36, 592 C. 1903 [1] 724).
- $C_{27}H_{19}O_5N$ C 74,1 — H 4,3 — O 18,3 — N 3,2 — M. G. 437.
 1) Dibenzoat d. 4-Benzoylamido-1,3-Dioxybenzol. Sm. 172° (B. 35, 4200 C. 1903 [1] 146).
- $C_{27}H_{20}ON_2$ 2) Phenylhydrazon d. 9-Keto-4-[4-Methylbenzoyl]fluoren. Zers. bei 82° (M. 25, 983 C. 1904 [2] 1653).
 3) N-Benzyl- α' -Phenylpyrophtalin. Sm. 211° (B. 36, 3923 C. 1904 [1] 98).

- $C_{27}H_{10}ON_4$ C 77,9 — H 4,8 — O 3,8 — N 13,5 — M. G. 416.
 1) 3-Benzoylphenylamido-1,5-Diphenyl-1,2,4-Triazol. Sm. 148—149° (*Am.* 29, 80 *C.* 1903 [1] 523).
- $C_{27}H_{20}O_2N_2$ 2) Verbindung (aus Benzilsäure u. Phenylisocyanat). Sm. 181° (*Bl.* [3] 29, 128 *C.* 1903 [1] 564).
- $C_{27}H_{20}O_3N_2$ 3) Benzoat d. α -Benzoyl- α -Phenyl- β -[2-Oxybenzyliden]hydrazin. Sm. 170—171° (*B.* 37, 3938 *C.* 1904 [2] 1596).
- $C_{27}H_{20}O_4N_2$ 4) Benzoat d. 3,4-Di[Benzoylamido]-1-Oxybenzol. Sm. 220—222° (225°) (*B.* 36, 4117 *C.* 1904 [1] 272; *B.* 36, 4125 *C.* 1904 [1] 273).
- 5) Dibenzoat d. 3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 167° (*B.* 36, 2930 *C.* 1903 [2] 887).
- $C_{27}H_{20}N_3Cl$ 1) Nitril d. β -Diphenylhydrazon- α -[4-Chlorphenyl]- β -Phenylpropion-säure. Sm. 95° (*J. pr.* [2] 67, 383 *C.* 1903 [1] 1356).
- $C_{27}H_{21}ON$ 2) 9-Phenyl-9-[4-Acetylamidophenyl]fluoren. Sm. 213,5° (*B.* 37, 75 *C.* 1904 [1] 519).
- 3) 9-Phenylamido-10-Keto-9-Phenyl-9,10-Dihydroanthracen. Sm. 174—178° u. Zers. (*B.* 37, 3339 *C.* 1904 [2] 1056).
- 4) 10-Acetyl-5,5-Diphenyl-5,10-Dihydroakridin. Sm. 216,5—218,5° (*B.* 37, 3203 *C.* 1904 [2] 1472).
- $C_{27}H_{21}O_2N$ 2) Benzoat d. Verb. $C_{30}H_{17}ON$. Sm. 155° (*B.* 36, 3922 *C.* 1904 [1] 98).
- $C_{27}H_{21}O_3N_3$ 3) Di[Diphenylamid] d. Oximidomalonsäure. Sm. 237—238° u. Zers. K (*C.* 1904 [1] 1555).
- $C_{27}H_{21}O_3N_5$ 2) $\alpha\gamma$ -Di[Phenylhydrazon]- β -Keto- α -Phenyl- γ -[4-Nitrophenyl]propan. Sm. 219° (*B.* 37, 1533 *C.* 1904 [1] 1609).
- $C_{27}H_{21}O_4N$ C 76,6 — H 5,0 — O 15,1 — N 3,3 — M. G. 423.
 1) 3-Nitrobenzoat d. 4-Oxy-3-Methyltriphenylmethan. Sm. 93—94° (*B.* 36, 3562 *C.* 1903 [2] 1374).
- 2) Dibenzoat d. $\alpha\beta$ -Dioxy- α -Phenyl- β -[2-Pyridyl]äthan. Sm. 88—89°. $HCl + H_2O$ (*B.* 36, 121 *C.* 1903 [1] 470).
- $C_{27}H_{21}O_5N$ C 73,8 — H 4,8 — O 18,2 — N 3,2 — M. G. 439.
 1) 4-[3-Nitrobenzoat] d. $\alpha,4$ -Dioxy-3-Methyltriphenylmethan. Sm. 118—119° (*B.* 36, 3560 *C.* 1903 [2] 1374).
- $C_{27}H_{21}N_2Cl$ 1) γ -Phenylhydrazon- $\beta\gamma$ -Diphenyl- α -[2-Chlorphenyl]propen. Sm. 131° (*B.* 35, 3970 *C.* 1903 [1] 31).
- $C_{27}H_{22}ON_4$ 3) s-Di[Diphenylmethylenamido]harnstoff. Sm. 221—223° (*B.* 37, 3180 *C.* 1904 [2] 991).
- $C_{27}H_{22}O_2N_2$ 6) N-Benzoyl-2-Benzoylamidobenzylphenylamin. Sm. 201—203° (*B.* 37, 3118 *C.* 1904 [2] 1317).
- 7) $\alpha\beta$ -Dibenzoyl- α -Diphenylmethylhydrazin. Sm. 262° (*J. pr.* [2] 67, 169 *C.* 1903 [1] 873).
- 8) Di[Phenylamid] d. Diphenylmethan-2,4'-Dicarbonsäure. Sm. 227° (*A.* 309, 120). — *II, 1096.
- 9) Di[Diphenylamid] d. Malonsäure. Sm. 219—220° u. Zers. (*C.* 1904 [1] 1555).
- $C_{27}H_{22}O_3N_4$ C 72,0 — H 4,9 — O 10,7 — N 12,4 — M. G. 450.
 1) 2-Oxy-3,5-Di[Phenylazo]benzol-1-[α -Phenylpropionsäure]. Sm. 223° (*B.* 37, 4134 *C.* 1904 [2] 1736).
- $C_{27}H_{22}O_6N_4$ 6) Di[Phenylazocyanomakturin. Sm. 245—247° (*Soc.* 67, 942; *C.* 1904 [2] 433). — III, 684.
- $C_{27}H_{23}N_2S$ 1) Verbindung. Sm. 198—201° (*C.* 1904 [1] 1003).
- $C_{27}H_{23}ON$ 6) 9-[4-Dimethylamidophenyl]-9-Phenylxanthen. Sm. 195,5° (*B.* 37, 2374 *C.* 1904 [2] 344).
- $C_{27}H_{23}OBr_9$ 1) Nonabromdehydrocholesterin. Sm. 145° (*M.* 24, 224 *C.* 1903 [2] 21).
- $C_{27}H_{23}O_3N$ C 82,4 — H 5,8 — O 8,1 — N 3,6 — M. G. 393.
 1) 5-Acetyl-3-Benzoyl-2-Methyl-4,6-Diphenyl-1,4-Dihydropyridin? Sm. 222° (*B.* 36, 2188 *C.* 1903 [2] 569).
- $C_{27}H_{23}O_3N_3$ 2) Di[Diphenylamid] d. Amidomalonsäure. Sm. 200—201° (*C.* 1904 [1] 1555).
- $C_{27}H_{23}O_5N$ C 79,2 — H 5,6 — O 11,7 — N 3,4 — M. G. 409.
 1) 4-Oxido-1-Acetyl-3-Benzoyl-2,6-Diphenyl-1,2,3,4-Tetrahydrobenzol. Sm. 199° (*B.* 36, 2132 *C.* 1903 [2] 366).
- $C_{27}H_{23}O_6N$ *2) Monobenzoat d. Chelidonin. Sm. 217° (*C.* 1904 [1] 1224).
- 3) $\beta\zeta$ -Diketo- $\gamma\epsilon$ -Dibenzoyl- δ -[3-Nitrophenyl]heptan. Sm. 229—230° u. Zers. (*Soc.* 83, 1376 *C.* 1904 [1] 164, 450).

- $C_{27}H_{23}O_6N_3$ C 66,8 — H 4,7 — O 19,8 — N 8,7 — M. G. 485.
 1) Tribenzoat d. $\beta\gamma\epsilon$ -Trioximidohexan. Zers. bei 180° (*G.* 34 [1] 46 C. 1904 [1] 1150).
- $C_{27}H_{23}O_{12}N_3$ * 2) Tri[3-Nitrobenzyliden]-d-Mannit. Sm. 254° (*Bl.* [3] 29, 504 C. 1903 [2] 237).
- $C_{27}H_{24}O_2N_2$ 5) Dimethyläther d. α -Phenylazo-4,4'-Dioxytriphenylmethan. Sm. 112° (*B.* 36, 2788 C. 1903 [2] 882).
- $C_{27}H_{24}O_2S_3$ 1) 2,3,5-Tribenzyläther d. 2,3,5-Trimerkapto-1,4-Dioxybenzol. Sm. $94-98^\circ$ (*A.* 336, 154 C. 1904 [2] 1300).
- $C_{27}H_{24}O_4N_4$ C 69,2 — H 5,1 — O 13,7 — N 12,0 — M. G. 468.
 1) Di[4,6-Dioxy-3-(oder 5)-Phenylazo-2-Methylphenyl]methan (Methylenbisbenzolaazoocin) (*A.* 329, 303 C. 1904 [1] 793).
- $C_{27}H_{24}O_4S$ 1) Dimethyläther d. α -Phenylsulfon-4,4'-Dioxytriphenylmethan. Sm. $160-161^\circ$ (*B.* 36, 2789 C. 1903 [2] 882).
- $C_{27}H_{24}O_6N_4$ C 64,8 — H 4,8 — O 19,2 — N 11,2 — M. G. 500.
 1) Di[2,4,6-Trioxo-3,5-Diphenylazo-3-Methylphenyl]methan (Methylenbisbenzolaazomethylphloroglucin). Sm. noch nicht bei 290° (*A.* 329, 282 C. 1904 [1] 796).
- $C_{27}H_{24}N_2S_3$ 1) Di[4-Methylphenyläther] d. s-Di[4-Merkaptophenyl]thioharnstoff. Sm. 155° (*J. pr.* [2] 68, 272 C. 1903 [2] 993).
- $C_{27}H_{25}O_5N_5$ C 69,4 — H 5,3 — O 10,3 — N 15,0 — M. G. 467.
 1) Phenylamido-4-Nitrophenylhydrazonmethyläther d. Dibenzylhydroxylamin. Sm. 209° (*B.* 37, 3237 C. 1904 [2] 1153).
- $C_{27}H_{25}O_4N$ C 75,9 — H 5,8 — O 15,0 — N 3,3 — M. G. 427.
 1) Benzylidihydroberberin. Sm. $161-162^\circ$ (*B.* 37, 3336 C. 1904 [2] 1156).
- $C_{27}H_{25}O_5N$ C 73,1 — H 5,6 — O 18,1 — N 3,2 — M. G. 443.
 1) Benzoylanhydrocotarninacetophenon. Sm. $107-108^\circ$ (*B.* 37, 2750 C. 1904 [2] 546).
- $C_{27}H_{26}ON_2$ 2) 4-Diäthylamidophenyl-4-Phenylamido-1-Naphtylketon. Sm. 146 bis 147° (*B.* 37, 1903 C. 1904 [2] 115).
- $C_{27}H_{26}OBr_3$ 1) Hexabromdehydrocholesterin. Sm. 112° (*M.* 24, 224 C. 1903 [2] 21).
- $C_{27}H_{26}O_2N_2$ 3) 2-Naphtylamid d. β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 150° (*C. r.* 138, 580 C. 1904 [1] 925).
- $C_{27}H_{26}O_4N_2$ 3) 4,4'-Di[Diäcetylamido]triphenylmethan. Sm. $172-173^\circ$ (*C.* 1904 [2] 227).
- $C_{27}H_{26}O_4N_6$ C 65,0 — H 5,2 — O 12,9 — N 16,9 — M. G. 498.
 1) Di[Benzylidenhydrazid] d. α -Benzoylamidoacetylamidoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 204° (*J. pr.* [2] 70, 175 C. 1904 [2] 1396).
- $C_{27}H_{26}O_6N_6$ 2) Di[2-Oxybenzylidenhydrazid] d. α -Benzoylamidoacetylamidoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 209° (*J. pr.* [2] 70, 175 C. 1904 [2] 1396).
 3) Di[Benzylhydrazid] d. α -Benzoylamidoacetylamidoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 228° (*J. pr.* [2] 70, 176 C. 1904 [2] 1396).
- $C_{27}H_{27}O_4N$ 2) 4-Oximido-1-Oxy-1,6-Diphenyl-2-[4-Isopropylphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. $221-223^\circ$ (*Am.* 31, 145 C. 1904 [1] 806).
- $C_{27}H_{27}O_3N_3$ 1) Triäthyläther d. 2,4,6-Tri[4-Oxyphenyl]-1,3,5-Triazin. Sm. 171° corr. (*B.* 36, 3193 C. 1903 [2] 956).
- $C_{27}H_{27}O_4N$ * 2) Tetramethyläther d. 6,7-Dioxy-2-Benzyl-1-[3,4-Dioxybenzyliden]-1,2-Dihydroisochinolin (Benzylidenpapaverin; N-Benzylisopapaverin). Sm. $139-140^\circ$. Pikrat (*B.* 37, 528 C. 1904 [1] 818).
- $C_{27}H_{28}O_4N_2$ * 4) Salicylat d. Chinin. Sm. 140° (*D. R. P.* 137207 C. 1903 [1] 110).
- $C_{27}H_{28}O_4N_4$ * 2) Disazobenzolsantonsäure (*B.* 36, 1395 C. 1903 [1] 1360).
- $C_{27}H_{28}O_7N_2$ 3) 4-Nitrobenzylhydroxyd d. Papaverin. Salze siehe (*B.* 37, 3811 C. 1904 [2] 1574).
- $C_{27}H_{29}O_4N_5$ C 66,5 — H 6,0 — O 13,1 — N 14,4 — M. G. 487.
 1) Di[4-Methylphenylamid] d. α -Benzoylamidoacetylamidoäthan- α -Carbonsäure- β -Amidoameisensäure. Sm. 216° (*J. pr.* [2] 70, 181 C. 1904 [2] 1397).
- $C_{27}H_{30}ON_2$ 2) α -Benzoyl- α -[2,4,6-Trimethylbenzyl]- β -[2,4,6-Trimethylbenzyliden]hydrazin. Sm. $142,5-143^\circ$ (*C.* 1903 [1] 142).
- $C_{27}H_{30}OBr_3$ 1) Dibromdehydrocholesterin. Sm. $62-64^\circ$ (*M.* 24, 225 C. 1903 [2] 21).
- $C_{27}H_{30}O_4N_2$ C 72,6 — H 6,7 — O 14,4 — N 6,3 — M. G. 446.
 1) Diacetat d. 4',4''-Di[Dimethylamido]-3,4-Dioxytriphenylmethan. Sm. 141° (*B.* 36, 2918 C. 1903 [2] 1065).

- $C_{27}H_{30}N_3P$ * 1) Tri[1,2,3,4-Tetrahydro-1-Chinolyl]phosphin. Sm. 202—204° (A. 326, 171 C. 1903 [1] 762).
C 75,5 — H 7,2 — O 7,5 — N 9,8 — M. G. 429.
- $C_{27}H_{31}O_2N_3$ 1) Aethyläther d. 5-Oxy-3-Keto-1,1-Di[4-Dimethylamidophenyl]-2-Methyl-2,3-Dihydropseudoisindol. Sm. 181° (A. 329, 78 C. 1903 [2] 1440).
- $C_{27}H_{32}O_2N_4$ 2) $\delta\delta$ -Di[3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydro-4-Pyrazolyl]- β -Methylbutan (Isovaleryldiantipyrin). Sm. 160—161° (C. 1903 [1] 167).
- $C_{27}H_{32}O_6S_2$ 1) $\beta\beta$ -Tribenzylsulfonhexan. Sm. 129—130° (B. 37, 507 C. 1904 [1] 883).
- $C_{27}H_{33}O_2N_3$ 6) Aethyl-2,3-Di[Dimethylamido]-3-Methyltriphenylmethan-6-Amidoameisensäure. Sm. 158—159° (B. 36, 2783 C. 1903 [2] 881).
7) Methylamid d. 4',4''-Di[Dimethylamido]-4-Oxytriphenylmethan-4-Aethyläther-2-Carbonsäure. Sm. 185° (A. 329, 74 C. 1903 [2] 1440).
C 63,0 — H 6,6 — O 24,9 — N 5,4 — M. G. 514.
- $C_{27}H_{34}O_6N_2$ 1) Diäthylester d. Methylendi[Phenylamidoessigsäurecarbonsäure]. Sm. 113—114° (C. 1903 [2] 835).
- $C_{27}H_{40}O_2Br_2$ 1) Dibromcholestandion. Sm. 165° u. Zers. (B. 37, 2031 C. 1904 [2] 185).
- $C_{27}H_{41}O_3Cl$ 1) Anhydrid d. Säure $C_{27}H_{43}O_4Cl$. Sm. 187° (B. 37, 3705 C. 1904 [2] 1699).
- $C_{27}H_{41}O_3Br$ 1) Bromcholestanondisäure. Sm. 151° u. Zers. (B. 37, 2032 C. 1904 [2] 185).
- $C_{27}H_{42}O_6N_2$ C 66,1 — H 8,6 — O 19,6 — N 5,7 — M. G. 490.
- $C_{27}H_{43}OCl$ 1) Nitrat d. Nitrooxycholesterin. Sm. 128° (C. 1903 [1] 814).
1) Chlorcholestanon. Sm. 123,5—129° (M. 24, 656 C. 1903 [2] 1236).
2) isom. Chlorcholestanon. Sm. 180—181° (B. 37, 2032 Anm. C. 1904 [2] 185; B. 37, 3702 C. 1904 [2] 1699).
- $C_{27}H_{45}O_2N$ C 78,4 — H 10,4 — O 7,7 — N 3,4 — M. G. 413.
- $C_{27}H_{45}O_4N$ 1) Nitrocholesterin. Sm. 94—95° (M. 24, 649 C. 1903 [2] 1235).
C 72,8 — H 9,7 — O 14,4 — N 3,1 — M. G. 445.
- $C_{27}H_{45}O_4Cl$ 1) Nitrooxycholesterin. Sm. 123—124° (C. 1903 [1] 814).
- $C_{27}H_{45}O_5N$ 1) Säure (aus Chlorcholestanon). Sm. 243° (B. 37, 3704 C. 1904 [2] 1699).
C 70,3 — H 9,3 — O 17,3 — N 3,0 — M. G. 461.
- $C_{27}H_{45}O_5N$ * 1) Oxim d. Säure $C_{27}H_{43}O_5$. Sm. 213—214° (B. 37, 3707 C. 1904 [2] 1699).
- $C_{27}H_{43}O_5N$ 1) Cevin (B. 37, 1946 C. 1904 [2] 125).
C 61,7 — H 8,2 — O 27,4 — N 2,7 — M. G. 525.
- $C_{27}H_{43}O_6N$ 1) Cevinoxid. Sm. 275—278°. HCl, (HCl, AuCl₃) (B. 37, 1952 C. 1904 [2] 126).
- $C_{27}H_{44}OBr_2$ 2) Dibromdihydroeuphorbon. Sm. 81° (Ar. 241, 240 C. 1903 [2] 120).
- $C_{27}H_{44}O_2N_2$ C 75,7 — H 10,3 — O 7,5 — N 6,5 — M. G. 428.
- 1) Dioxim d. Cholestandion. Sm. 205° u. Zers. (B. 36, 3756 C. 1903 [2] 1418).
- $C_{27}H_{45}ON$ C 81,2 — H 11,3 — O 4,0 — N 3,5 — M. G. 399.
- 1) Oxim d. Cholestenon. Sm. 152° (B. 37, 3101 C. 1904 [2] 1535).

— 27 IV —

- $C_{27}H_{17}O_7NS$ 1) Di[2-Naphtylester] d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfon-säure. Sm. 134° (Am. 30, 384 C. 1904 [1] 275).
- $C_{27}H_{18}O_8NCl$ 1) 6-Chlor-3-[2-Methylphenyl]amidofluoran. Sm. 192° (D.R.P. 85885; D.R.P. 139727 C. 1903 [1] 796). — *III, 574.
2) 6-Chlor-3-[4-Methylphenyl]amidofluoran. Sm. 194° (D.R.P. 85885). — *III, 574.
- $C_{27}H_{19}O_2N_2Cl$ 1) α -Benzoylimido- α -[Benzoyl-4-Chlorphenyl]amido- α -Phenylmethan. Sm. 169° (J. pr. [2] 67, 456 C. 1903 [1] 1421).
- $C_{27}H_{21}O_{12}N_8Br_2$ 1) Säure (aus Dibromdehydrocholesterin). Zers. bei 198° (M. 24, 226 C. 1903 [2] 21).
- $C_{27}H_{25}O_9NS_3$ 1) Tribenzolsulfonat d. Suprarenin (M. 24, 279 C. 1903 [2] 302). — *III, 667.
- $C_{27}H_{26}O_4NBr$ 1) Tetramethyläther d. 6,7-Dioxy-2-Benzyl-1-[6-Brom-3,4-Dioxybenzyliden]-1,2-Dihydroisochinolin. Sm. 113° (B. 37, 3814 C. 1904 [2] 1575).
- $C_{27}H_{27}O_6N_2Cl$ 2) 4-Nitrochlorbenzylat d. Papaverin. Sm. 132° u. Zers. + HgCl₂ (B. 37, 3811 C. 1904 [2] 1574).

- $C_{27}H_{25}N_5SSi$ 1) Verbindung (aus Aethylsenföhl u. Silicotetraphenylamid) (*Soe.* 83, 255 *C.* 1903 [1] 572, 875).
- $C_{27}H_{39}N_3SP$ *1) Tri[1,2,3,4-Tetrahydro-1-Chinolyl]phosphinsulfid (*A.* 326, 219 *C.* 1903 [1] 822).
- $C_{27}H_{36}ON_3P$ 1) Tri[2,4,5-Trimethylphenylamid] d. Phosphorsäure. *Sm.* 217° (*A.* 326, 252 *C.* 1903 [1] 868).
- 2) Tri[2,4,6-Trimethylphenylamid] d. Phosphorsäure. *Sm.* 240° (*A.* 326, 252 *C.* 1903 [1] 868).
- $C_{27}H_{49}OClBr$ 1) Chlorbromcholestanon. *Sm.* 116—117° (*B.* 37, 3704 *C.* 1904 [2] 1699).
- $C_{27}H_{44}ONCl$ 1) Oxim d. isom. Chlorcholestanon. *Sm.* 179—181° (*B.* 37, 3703 *C.* 1904 [2] 1699).

— 27 V —

- $C_{27}H_{27}O_4NClBr$ 1) Chlorbenzylat d. 6,7-Dioxy-1-[6-Brom-3,4-Dioxybenzyl]isochinolintetramethyläther (*B.* 37, 3814 *C.* 1904 [2] 1575).

C₂₈-Gruppe.

- $C_{28}H_{20}$ 2) 9,10-Dibenzylidenanthracen. *Sm.* 237—240° (*M.* 25, 799 *C.* 1904 [2] 1137).
- $C_{28}H_{22}$ *2) 9,10-Dibenzylanthracen. *Sm.* 241° (*M.* 25, 793 *C.* 1904 [2] 1137).
- 3) $\alpha\alpha\delta\delta$ -Tetraphenyl- $\alpha\gamma$ -Butadien. *Sm.* 202°. + C_6H_8 (*C. r.* 136, 695 *C.* 1903 [1] 967; *Bl.* [3] 29, 687 *C.* 1903 [2] 566).
- $C_{28}H_{24}$ 2) polym. Stilben. *Sm.* 163° (*B.* 35, 4129 *C.* 1903 [1] 160).
- $C_{28}H_{28}$ *1) $\alpha\beta\gamma\delta$ -Tetraphenylbutan. *Sm.* 255° (*B.* 36, 539 *C.* 1903 [1] 707).
- 4) $\alpha\alpha\delta\delta$ -Tetraphenylbutan. *Sm.* 121°. + C_6H_6 (*Bl.* [3] 29, 688 *C.* 1903 [2] 566).
- $C_{28}H_{58}$ 2) Kohlenwasserstoff (aus Haschisch) (*C.* 1903 [2] 199).

— 28 II —

- $C_{28}H_{18}O_6$ 3) Dibenzoat d. 4,5-Dioxy-9,10-Phenanthrenchinon. *Sm.* 170° (*B.* 36, 3752 *C.* 1904 [1] 38).
- $C_{28}H_{16}N_2$ 3) 1,2,2',1'-Anthrazin. *Sm.* 390° (400° u. Zers.) (*B.* 36, 1722 *C.* 1903 [2] 44; *B.* 36, 3442 *C.* 1903 [2] 1280).
- $C_{28}H_{18}O_3$ 3) Anhydrid d. $\alpha\alpha$ -Diphenyl- $\beta\beta$ -Biphenylenäthan- $\alpha\beta$ -Dicarbonsäure. *Sm.* 256° (*B.* 29, 738). — *II, 1109.
- $C_{28}H_{18}O_4$ 7) Dibenzoat d. 9,10-Dioxyphenanthren. *Sm.* 230—231° (*D. R. P.* 151981 *C.* 1904 [2] 167).
- $C_{28}H_{18}O_5$ *1) Anhydrid d. Diphenylketon-2-Carbonsäure. *Sm.* 127° (*M.* 25, 478 *C.* 1904 [2] 337).
- $C_{28}H_{18}O_9$ *2) Tetrasalicylid (*J. pr.* [2] 69, 29 *C.* 1904 [1] 641).
- $C_{28}H_{18}N_2$ 3) 9,9'-Azophenanthren. Zers. bei 270° (*B.* 36, 2514 *C.* 1903 [2] 506).
- $C_{28}H_{20}O_2$ 9) 4-Oxy-2-Methylphenyldinaphtopyran. *Sm.* 215° (*C. r.* 138, 283 *C.* 1904 [1] 730).
- 10) 4-Oxy-3-Methylphenyldinaphtopyran. *Sm.* 232—233° (*C. r.* 138, 283 *C.* 1904 [1] 730).
- 11) 6-Oxy-3-Methylphenyldinaphtopyran. *Sm.* 249—250° (*C. r.* 138, 284 *C.* 1904 [1] 730).
- $C_{28}H_{20}O_3$ *3) Guajakoldinaphtopyran (Verb. aus Vanillin u. β -Naphtol). *Sm.* 210° (*C. r.* 137, 860 *C.* 1904 [1] 104).
- $C_{28}H_{20}O_4$ 7) $\alpha\alpha$ -Diphenyl- $\beta\beta$ -Biphenylenäthan- $\alpha\beta$ -Dicarbonsäure (*B.* 29, 734). — *II, 1109.
- $C_{28}H_{20}O_8$ C 69,4 — H 4,1 — O 26,4 — *M. G.* 484.
- 1) 5,7-Diacetoxy-3-Benzoyl-4-Methylen-2-Phenyl-1,4-Benzpyran-2'-Carbonsäure. *Sm.* 189° u. Zers. (*B.* 37, 1971 *C.* 1904 [2] 232).
- $C_{28}H_{20}O_{11}$ 4) Tetraacetat d. Phloroglucinphtalein. *Sm.* 230° u. Zers. (*B.* 36, 1073 *C.* 1903 [1] 1181).
- $C_{28}H_{20}Cl_8$ *1) Ditolanhexachlorid (*B.* 36, 3063 *C.* 1903 [2] 946).
- $C_{28}H_{20}S$ *1) Thionessal. *Sm.* 184° (*R.* 21, 422 *C.* 1903 [1] 503; *B.* 36, 538 *C.* 1903 [1] 707).

- $C_{25}H_{31}Br$ *1) 9-[α -Brombenzyl]-10-Benzylanthracen. Sm. 187° (*M.* 25, 794 *C.* 1904 [2] 1137).
- $C_{28}H_{22}O$ *7) 9-[α -Oxybenzyl]-10-Benzylanthracen. Sm. 151° (*M.* 25, 806 *C.* 1904 [2] 1137).
- $C_{28}H_{22}O_2$ 7) Benzoat d. α -Oxy- $\alpha\gamma\gamma$ -Triphenylpropen. Sm. 220° (*Am.* 31, 653 *C.* 1904 [2] 446).
- $C_{28}H_{22}O_3$ 4) Dimethyläther d. 10-Keto-9,9-Di[4-Oxyphenyl]-9,10-Dihydroanthracen. Sm. 208° (*B.* 37, 3618 *C.* 1904 [2] 1503).
- $C_{28}H_{22}O_4$ *2) Dibenzooat d. $\alpha\alpha$ -Di[4-Oxyphenyl]äthan. Sm. 148,9° (*C.* 1904 [1] 1650).
- $C_{28}H_{22}O_5$ *1) Dibenzilsäure (*B.* 36, 145 *C.* 1903 [1] 465).
- 2) 2,5-Dibenzooat d. 2,5,4'-Trioxydiphenylmethan-4'-Methyläther. Sm. 125° (*B.* 37, 3488 *C.* 1904 [2] 1301).
- $C_{28}H_{24}O$ 3) 2,2,5,5-Tetraphenyltetrahydrofuran. Sm. 182° (*C. r.* 136, 695 *C.* 1903 [1] 967).
- $C_{28}H_{24}O_2$ 4) Acetat d. 4'-Oxy-4-Methyltetraphenylmethan. Sm. 135° (*B.* 37, 660 *C.* 1904 [1] 952).
- $C_{28}H_{24}O_8$ 2) Tetraguajakchinon. Sm. 135—140° (*C. r.* 137, 1271 *C.* 1904 [1] 445).
- $C_{28}H_{24}N_2$ 12) γ -Phenylhydrazon- $\beta\gamma$ -Diphenyl- α -[4-Methylphenyl]propen. Sm. 187° (*B.* 35, 3967 *C.* 1903 [1] 31).
- 13) 4,4'-Di[4-Methylbenzylidenamido]biphenyl. Sm. 231° (*B.* 37, 3423 *C.* 1904 [2] 1295).
- $C_{28}H_{26}O_2$ *1) $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenyl- $\alpha\beta$ -Di[4-Methylphenyl]äthan. Sm. 163—164° (*B.* 37, 2762 *C.* 1904 [2] 707).
- 5) $\alpha\delta$ -Dioxy- $\alpha\alpha\delta\delta$ -Tetraphenylbutan. Sm. 208° (202°) (*C. r.* 136, 694 *C.* 1903 [1] 967; *B.* 37, 2641 *C.* 1904 [2] 529).
- $C_{28}H_{26}O_8$ C 68,6 — H 5,3 — O 26,1 — M. G. 490.
- 1) Tetraguajakhydrochinon. Sm. 115—120° (*C. r.* 137, 1271 *C.* 1904 [1] 445).
- $C_{28}H_{26}N_2$ 6) α -Phenylazotri[4-Methylphenyl]methan. Sm. 113—116° u. Zers. (*B.* 37, 3160 *C.* 1904 [2] 1048).
- $C_{28}H_{27}N$ C 89,1 — H 7,2 — N 3,7 — M. G. 377.
- 1) α -Phenylamidotri[4-Methylphenyl]methan. Sm. 131° (*B.* 37, 3159 *C.* 1904 [2] 1048).
- $C_{28}H_{28}O_6$ 2) Tribenzooat d. δ -Oxy- $\gamma\gamma$ -Di[Oxymethyl]- β -Methylbutan. Sm. 55° (*B.* 36, 1346 *C.* 1903 [1] 1298).
- $C_{28}H_{28}N_2$ 8) α -Phenylhydrazidotri[4-Methylphenyl]methan (*B.* 37, 3160 *C.* 1904 [2] 1049).
- 9) Verbindung (aus 2-Methylindol u. Cuminol). Sm. 218—219° (*B.* 36, 4329 *C.* 1904 [1] 463).
- $C_{28}H_{31}N_3$ C 82,1 — H 7,6 — N 10,3 — M. G. 409.
- 1) Di[4-Dimethylamidophenyl]-4-Methylamido-1-Naphtylmethan. Sm. 201—202° (*C.* 1903 [1] 87; *B.* 37, 1908 *C.* 1904 [2] 115).
- $C_{28}H_{32}O_{17}$ C 52,5 — H 5,0 — O 42,5 — M. G. 640.
- 1) Cocacitrin + 3H₂O. Sm. 186° (wasserfrei) (*J. pr.* [2] 66, 403 *C.* 1903 [1] 527).
- $C_{28}H_{32}O_2$ C 82,8 — H 9,3 — O 7,9 — M. G. 406.
- 1) $\gamma\delta$ -Diketo- ϵ -Di[4-Isopropylphenyl]dekan. Sm. 169,5° (*A.* 330, 260 *C.* 1904 [1] 947).
- 2) $\beta\eta$ -Diketo- $\delta\epsilon$ -Di[4-Isopropylphenyl]- $\gamma\zeta$ -Dimethyloktan. Sm. 145,5° (*A.* 330, 263 *C.* 1904 [1] 947).
- $C_{28}H_{36}O_{19}$ *4) Oktoacetat d. Melibiose. Sm. 170—171° (*C.* 1904 [1] 1645).
- 9) Oktacetylcellose. Sm. 228—229° (*Bl.* [3] 31, 856 *C.* 1904 [2] 644).
- 10) isom. Oktacetylcellose. Sm. 196° (*Bl.* [3] 31, 856 *C.* 1904 [2] 644).
- 11) Oktacetat d. Mannobiose C₁₂H₂₂O₁₁ (aus Salepschleim) (*B.* 36, 3201 *C.* 1903 [2] 1055).
- $C_{28}H_{44}O_2$ *2) Acetat d. Lupeol. Sm. 210° (*B.* 37, 4108 *C.* 1904 [2] 1655).
- 3) Phenylester d. Behenolsäure. Sm. 43° (*B.* 36, 3602 *C.* 1903 [2] 1314).
- $C_{28}H_{44}O_3$ C 78,5 — H 10,3 — O 11,2 — M. G. 428.
- 1) Formiat d. Cholestanonol. Sm. 104—105° (*B.* 36, 3754 *C.* 1903 [2] 1417).
- $C_{28}H_{46}O$ 2) Verbindung (aus Asclepias syriaca L.). Sm. 180—181° (*J. pr.* [2] 68, 456 *C.* 1904 [1] 191).
- $C_{28}H_{46}O_2$ 5) Arnisterin. Sm. 249—250°. + C₂H₆O (*C. r.* 138, 765 *C.* 1904 [1] 1224).

- $C_{28}H_{46}O_2$ 6) Verbindung (aus *Asclepias syriaca* L.). Sm. 40—45° (*J. pr.* [2] 68, 398 *C.* 1904 [1] 105).
- $C_{28}H_{48}O_4$ C 75,3 — H 10,3 — O 14,4 — M. G. 446.
- 1) Methylester d. Säure $C_{27}H_{44}O_4$. Sm. 105° (*B.* 37, 2030 *C.* 1904 [2] 184).
- 2) Monomethylester d. Säure $C_{27}H_{44}O_4$ (aus Cholesterin). Sm. 125° (*B.* 37, 3098 *C.* 1904 [2] 1535).
- $C_{28}H_{48}O$ 3) Antheserin (oder $C_{28}H_{50}O$). Sm. 221—223° (*Bl.* [3] 27, 1231 *C.* 1903 [1] 237).
- $C_{28}H_{49}O_{14}$ 1) Herniariasäure (*C.* 1904 [1] 1215).
- $C_{28}H_{50}O_2$ C 80,4 — H 12,0 — O 7,6 — M. G. 418.
- 1) Oleat d. Borneol. Sd. 295°₁₈ (*C. r.* 136, 238 *C.* 1903 [1] 584).
- $C_{28}H_{52}O_2$ *1) Stearat d. d-Borneol (*C. r.* 136, 238 *C.* 1903 [1] 584).
- $C_{28}H_{52}N_2$ C 80,8 — H 12,5 — N 6,7 — M. G. 416.
- 1) 1,3-Di[Diisocamylamidomethyl]benzol. Fl. (2HCl, PtCl₄), 2 Pikrat (*B.* 36, 1676 *C.* 1903 [2] 29).
- $C_{28}H_{58}O_2$ *5) Acetat d. Cerylalkohol. Sm. 64,3° (*B.* 36, 1053 *C.* 1903 [1] 1148).

— 28 III —

- $C_{28}H_{12}O_4N_2$ C 76,4 — H 2,7 — O 14,5 — N 6,4 — M. G. 440.
- 1) 1,2,2',1'-Anthrachinonazin. H_2SO_4 (*B.* 36, 3434 *C.* 1903 [2] 1279).
- $C_{28}H_{12}N_2Br_4$ 1) 2,7,2',7'-Tetrabromphenanthrazin (aus 2,7-Dibrom-9,10-Phenanthrenchinon). Sm. noch nicht bei 350° (*B.* 37, 3570 *C.* 1904 [2] 1403).
- $C_{28}H_{14}O_4N_2$ C 76,0 — H 3,2 — O 14,5 — N 6,3 — M. G. 442.
- 1) Indanthren. Zers. bei 470—500° (*B.* 36, 931 *C.* 1903 [1] 1031; *B.* 36, 3412 *C.* 1903 [2] 1276; *B.* 36, 3427 *C.* 1903 [2] 1278).
- $C_{28}H_{14}N_2Br_2$ 1) Dibromphenanthrazin (aus 2-Brom-9,10-Phenanthrenchinon). Sm. noch nicht bei 350° (*B.* 37, 3562 *C.* 1904 [2] 1401).
- $C_{28}H_{15}O_4N_3$ C 73,5 — H 3,3 — O 14,0 — N 9,2 — M. G. 457.
- 1) 4-Amidoindanthren (*B.* 36, 3438 *C.* 1903 [2] 1280).
- $C_{28}H_{18}O_2N_2$ C 84,4 — H 4,5 — O 7,8 — N 6,8 — M. G. 412.
- 1) Anthranonazin (*B.* 36, 3440 *C.* 1903 [2] 1280).
- 2) Verbindung (aus Indanthren) (*B.* 36, 933 *C.* 1903 [1] 1032).
- $C_{28}H_{16}O_{11}Cl_4$ 1) Tetraacetat d. Tetrachlordioxyfluorescein. Sm. 280° (*B.* 36, 1077 *C.* 1903 [1] 1182).
- $C_{28}H_{17}O_2N$ 2) β -Naphthylchinophtalon. Sm. 326° (*B.* 37, 3017 *C.* 1904 [2] 1409).
- $C_{28}H_{18}ON_2$ 3) β -Naphthylisochinophtalon. Sm. 273° (*B.* 37, 3017 *C.* 1904 [2] 1409).
- C 84,4 — H 4,5 — O 4,0 — N 7,1 — M. G. 398.
- 1) 9,9'-Azoxyphenanthren. Zers. bei 254—255°. + C_2H_6O (*B.* 36, 2512 *C.* 1903 [2] 506).
- $C_{28}H_{18}O_2N_2$ 4) 1,4-Di[Benzoylamido]naphtalin. Sm. 280,5° (*B.* 36, 4149, 4150 *C.* 1904 [1] 187).
- 5) $\alpha\beta$ -Dibenzoyl- α -[1-Naphtyl]hydrazin. Sm. 195—196° (*B.* 36, 4149 *C.* 1904 [1] 187).
- 6) N-Dihydroanthranonazin (*B.* 36, 3439 *C.* 1903 [2] 1280).
- $C_{28}H_{18}O_{11}Cl_2$ 1) Tetraacetat d. Dichlordioxyfluorescein. Sm. 276° (*B.* 36, 1081 *C.* 1903 [1] 1182).
- $C_{28}H_{18}O_{11}Br_2$ 2) Tetraacetat d. Dibromdioxyfluorescein. Sm. 272° (*B.* 36, 1082 *C.* 1903 [1] 1182).
- $C_{28}H_{20}O_4N_2$ 4) Tetrabenzoylhydrazin. Sm. 238° (220°) (*Bl.* [3] 31, 626 *C.* 1904 [2] 97; *J. pr.* [2] 70, 275 Anm. *C.* 1904 [2] 1544).
- $C_{28}H_{20}O_4N_8$ C 66,6 — H 4,0 — O 12,7 — N 16,6 — M. G. 504.
- 1) $\alpha\beta$ -Di[3-(3-Carboxylphenyl)azobenzyliden]hydrazin (*B.* 36, 3473 *C.* 1903 [2] 1269).
- $C_{28}H_{20}O_5N_4$ C 68,3 — H 4,0 — O 16,3 — N 11,4 — M. G. 492.
- 1) N-4-Formylphenyläther d. 4-Azoxybenzaloxim (*B.* 36, 794 *C.* 1903 [1] 968; *B.* 36, 2307 *C.* 1903 [2] 429).
- $C_{28}H_{20}O_8N_4$ C 66,1 — H 3,9 — O 18,9 — N 11,0 — M. G. 508.
- 1) β -Dinitro-1,5-Di[4-Methylphenylamido]-9,10-Anthrachinon (D. R. P. 142512 *C.* 1903 [2] 84).
- 2) β -Dinitro-1,8-Di[4-Methylphenylamido]-9,10-Anthrachinon (D. R. P. 142512 *C.* 1903 [2] 84).
- $C_{28}H_{20}O_7N_8$ C 60,9 — H 3,6 — O 20,3 — N 15,2 — M. G. 552.
- 1) Verbindung (aus 1,3-Dinitrobenzol u. Benzylcyanid). Zers. bei 97° (*B.* 37, 838 *C.* 1904 [1] 1202).

- $C_{25}H_{20}O_{10}Br_2$ 1) Aethylester d. Triacetyldibromdioxyfluorescein. Sm. 252° (B. 36, 1083 C. 1903 [1] 1182).
- $C_{25}H_{21}O_4N$ 5) Dimethyläther d. Hydrochinonphthaleinanilid. Sm. 183° (B. 36, 2960 C. 1903 [2] 1006).
- 6) 4-Benzylphenylester d. α -Phenyl- β -[4-Nitrophenyl]akrylsäure. Sm. 155–156° (G. 33 [2] 457 C. 1904 [1] 654).
- $C_{25}H_{21}O_5N$ 2) Dimethylenäther d. 3,4-Dioxyennamylidenmethyl-4-[3,4-Dioxyennamylidenamidophenyl]keton. Sm. 195–196° u. Zers. (B. 37, 1701 C. 1904 [1] 1497).
- $C_{25}H_{20}O_2N_2$ 4) 1,4-Di[4-Methylphenylamido]-9,10-Anthrachinon (Chinizarinrön). Sm. 218° (D. R. P. 86150, 125698, 126803; C. 1904 [2] 339). — * III, 297.
- 5) β -Benzoylimido- β -Phenylbenzoylamido- α -Phenyläthan. Sm. 175° (C. 1903 [2] 831).
- 6) α -Benzoylimido- α -[Benzoyl-2-Methylphenyl]amido- α -Phenylmethan. Sm. 167° (C. 1903 [2] 831).
- 7) 1,5-Di[4-Methylphenylamido]-9,10-Anthrachinon. Sm. 200–210° (C. 1903 [1] 722).
- $C_{25}H_{22}O_3N_2$ 5) Benzoat d. 4-Oxy-3-Benzoylphenylhydrazonmethyl-1-Methylbenzol. Sm. 164° (B. 35, 4107 C. 1903 [1] 150).
- 6) Benzoat d. 2-Oxy-1-Benzoyl-3-Phenyl-1,2,3,4-Tetrahydro-1,3-Benzodiazin. Sm. 168–169° (B. 37, 3119 C. 1904 [2] 1317).
- $C_{25}H_{22}O_4S_3$ 1) 1,4-Diacetat d. 2,3,5-Trimerkapto-1,4-Dioxybenzol-2,3,5-Triphenyläther. Sm. 101–101,5° (A. 336, 141 C. 1904 [2] 1299).
- $C_{25}H_{22}O_5N_4$ C 68,0 — H 4,4 — O 16,2 — N 11,3 — M. G. 494.
- 1) Aethyläther d. 4,4'-Di[4-Nitrobenzylidenamido]-3-Oxybiphenyl. Sm. 182–183° (B. 36, 4073 C. 1904 [1] 267).
- $C_{25}H_{23}O_2N_3$ 4) 3'-Acetylamido-2'-Methyl-9-[4-Acetylamidophenyl]-1,2-Naphtakridin. Sm. 354° (C. 1903 [1] 884).
- $C_{25}H_{24}ON_2$ 5) α -Acetyl- α -Diphenylmethyl- β -Diphenylmethylenhydrazin. Sm. 145° (J. pr. [2] 67, 178 C. 1903 [1] 874).
- $C_{25}H_{24}OS$ 1) Benzyläther d. γ -Keto- α -Merkapto- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 207° (B. 37, 505 C. 1904 [1] 882).
- $C_{25}H_{24}O_2N_2$ * 16) 1,4-Di[4-Methylphenylamido]-9,10-Dioxyanthracen (C. 1904 [2] 339).
- 17) 1,5-Di[4-Methylphenylamido]-9,10-Dioxyanthracen. Sm. 207° (C. 1904 [2] 340).
- 18) Di[Phenylamid] d. $\alpha\beta$ -Diphenyläthan-4,4'-Dicarbonsäure. (B. 37, 3218 C. 1904 [2] 1120).
- $C_{25}H_{24}O_3N_4$ 2) α -Imido- α -Benzoylamido- α -[β -Benzoyl- β -Phenyl- α -4-Methylphenylhydrazido]methan. Sm. 279° (Am. 29, 81 C. 1903 [1] 523).
- 3) Dimethyläther d. 1,4-Diphenyl-3,6-Di[4-Oxyphenyl]-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 173,5–174,5° (B. 36, 371 C. 1903 [1] 577).
- $C_{25}H_{24}O_3N_2$ * 4) Dibenzoylderivat d. 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 112° (J. pr. [2] 69, 236 C. 1904 [1] 1269).
- * 5) Dibenzoylderivat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 210° (J. pr. [2] 69, 165 C. 1904 [1] 1268).
- 12) 4,4'-Di[4-Methoxybenzylidenamido]-2-Oxybiphenyl. Sm. 200° (B. 36, 4114 C. 1904 [1] 272).
- 13) 3-Aethyläther d. 4,4'-Di[2-Oxybenzylidenamido]-3-Oxybiphenyl. Sm. 136–137° (B. 36, 4073 C. 1904 [1] 267).
- $C_{25}H_{21}O_3S$ 1) α -Keto- γ -Benzylsulfon- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 252–254° (B. 37, 506 C. 1904 [1] 882).
- $C_{25}H_{24}O_7N_2$ * 1) Orcein (M. 24, 902 C. 1904 [1] 513).
- $C_{25}H_{24}N_2S_3$ 1) Dibenzyläther d. Di[Phenylimidomerkaptomethyl]disulfid. Sm. 121° (B. 36, 2265 C. 1903 [2] 562).
- $C_{25}H_{26}O_5N$ C 73,8 — H 8,5 — O 17,6 — N 3,1 — M. G. 455.
- 1) Benzoyldehydrocorybulbin. Sm. 173–174°. $HCl + 2H_2O + CHCl_3$, + Aceton (Ar. 241, 642 C. 1904 [1] 181).
- $C_{25}H_{26}ON_2$ C 82,8 — H 6,4 — O 3,9 — N 6,9 — M. G. 406.
- 1) α -Acetyl- $\alpha\beta$ -Di[Diphenylmethyl]hydrazin. Sm. 158° (J. pr. [2] 67, 188 C. 1903 [1] 875).
- $C_{25}H_{26}O_2N_4$ * 4) Dimethyläther d. Dehydro-4-Oxybenzalphenylhydrazon. Sm. 197 bis 198° (B. 36, 68 C. 1903 [1] 451).

- $C_{28}H_{26}O_4N_4$ 12) Diäthyläther d. 4,4'-Di[4-Oxyphenylazo]biphenyl. Sm. 252—253° (B. 36, 2974 C. 1903 [2] 1031).
- $C_{28}H_{26}N_5J$ *1) Jodmethylat d. Base $C_{27}H_{23}N_5$ (J. pr. [2] 66, 576 C. 1903 [1] 589).
- $C_{28}H_{28}ON_2$ 2) 4-Diäthylamidophenyl-4-[4-Methylphenyl]amido-1-Naphtylketon. Sm. 176—177° (B. 37, 1903 C. 1904 [2] 115).
- $C_{28}H_{20}ON$ C 85,0 — H 7,3 — O 4,1 — N 3,5 — M. G. 395.
- 1) γ -Keto- γ -[4-Isopropylbenzylidenamidophenyl]- α -[4-Isopropylphenyl]propen. Sm. 128° (B. 37, 394 C. 1904 [1] 657).
- $C_{28}H_{30}O_3N_2$ 2) s-Tetraäthylrhodamin (D. R. P. 44002, 48367, 81056, 87028, 89092). — *III, 575.
- $C_{28}H_{30}O_{10}N_4$ *1) 4,4'-Biphenyldihydrazon d. Oxalessigsäurediäthylester (Bl. [3] 31, 87 C. 1904 [1] 580).
- $C_{28}H_{30}N_8$ 1) Chlorid d. α -Oxy- α -Di[4-Dimethylamidophenyl]- α -[4-Methylamido-1-Naphtyl]methan (B. 37, 1912 C. 1904 [2] 115).
- 2) Chlormethylat d. α -Phenylimido- α -[4-Dimethylamidophenyl]- α -[4-Aethylamid-1-Naphtyl]methan (B. 37, 1904 C. 1904 [2] 116).
- $C_{28}H_{30}N_3J$ 1) Jodmethylat d. α -[4-Dimethylamidophenyl]- α -Di[2-Methyl-3-Indolyl]methan. Sm. 181—182° (B. 37, 323 C. 1904 [1] 668).
- $C_{28}H_{31}O_3N_3$ 2) Imid d. s-Tetraäthylrhodamin. Sm. 229° (D. R. P. 81264). — *III, 576.
- $C_{28}H_{31}N_4P$ 1) Tri[2-Methylphenylamido]phosphin-2-Methylphenylimid. HCl, (2HCl, PtCl₄), HNO₃ (C. r. 138, 816 C. 1904 [1] 1204).
- $C_{28}H_{32}O_2N_2$ C 78,5 — H 7,5 — O 7,5 — N 6,5 — M. G. 428.
- 1) Lakton d. α -Oxy-4,4'-Di[Diäthylamido]triphenylmethan-2''-Carbonsäure (Diäthylanilinphtalein). Sm. 128° (C. r. 126, 1251). — *II, 1019.
- $C_{28}H_{33}O_2N_3$ C 75,5 — H 7,8 — O 7,2 — N 9,4 — M. G. 445.
- 1) Dimethylamid d. 4,4'-Di[Dimethylamido]-4-Oxytriphenylmethan-4-Aethyläther-2-Carbonsäure. Sm. 139—140° (A. 329, 75 C. 1903 [2] 1440).
- $C_{28}H_{35}O_3N_3$ C 72,9 — H 7,6 — O 10,4 — N 9,1 — M. G. 461.
- 1) Aethyl ester d. α -Oxy-4,4'-Di[Dimethylamido]triphenylmethan- α -Aethyläther-2-Amidoameisensäure. Sm. 161—162° u. Zers. (B. 36, 2785 C. 1903 [2] 881).
- 2) Dimethylamid d. 4,4'-Di[Dimethylamido]- α ,4-Dioxytriphenylmethan-4-Aethyläther-2-Carbonsäure. Sm. 188° (A. 329, 79 C. 1903 [2] 1441).
- $C_{28}H_{40}O_4N_2$ *1) Cephaelin (C. 1903 [1] 92).
- $C_{28}H_{40}O_5N_2$ C 69,4 — H 8,3 — O 16,5 — N 5,8 — M. G. 484.
- 1) Emetin. (HJ, J₇) (C. 1898 [2] 1190). — *III, 656.
- $C_{28}H_{42}O_4N_2$ C 71,5 — H 8,9 — O 13,6 — N 6,0 — M. G. 470.
- 1) Diisobutylderivat d. Yohimboasäure. Sm. 137—138° (B. 37, 1764 C. 1904 [1] 1527).
- $C_{28}H_{43}O_6N_3$ C 65,0 — H 8,3 — O 18,6 — N 8,1 — M. G. 517.
- 1) Verbindung (aus Cholesterin). Sm. 147—148° (C. 1903 [1] 814).
- $C_{28}H_{45}ON$ *1) Phenylamid d. Behenolsäure. Sm. 72° (B. 36, 3602 C. 1903 [2] 1314).
- $C_{28}H_{46}O_9N$ C 62,2 — H 8,5 — O 26,6 — N 2,6 — M. G. 540.
- 1) Isopyroin. Sm. 160°. HCl, (2HCl, PtCl₄) (C. 1903 [1] 650).
- $C_{28}H_{47}ON_3$ C 76,2 — H 10,7 — O 3,6 — N 9,5 — M. G. 441.
- 1) Semicarbazon d. Cholestenon. Sm. 240° (B. 37, 3100 C. 1904 [2] 1535).
- $C_{28}H_{47}O_4N$ C 72,9 — H 10,2 — O 13,9 — N 3,0 — M. G. 461.
- 1) Methyl ester d. Oximsäure $C_{27}H_{45}O_4N$. Sm. 148° (B. 37, 2030 C. 1904 [2] 184).
- $C_{28}H_{56}O_8N_{14}$ C 46,9 — H 7,8 — O 17,9 — N 27,4 — M. G. 716.
- 1) Clupeon. (2HCl, PtCl₄) (H. 37, 109 C. 1903 [1] 236).

- $C_{28}H_{10}O_4N_2Br_2$ 1) Indanthren C. (B. 36, 931 C. 1903 [1] 1032).
- $C_{28}H_{13}O_4N_2Cl$ 1) 4-Chlorindanthren (B. 36, 3436 C. 1903 [2] 1279).
- $C_{28}H_{18}O_4N_4S$ 1) Phenylsulfondihydrochinolophenanthrazin. Sm. oberh. 300° (B. 36, 4044 C. 1904 [1] 183).
- 2) Phenylsulfondinaphtofluoavin. Sm. oberh. 300° (B. 36, 4046 C. 1904 [1] 184).
- $C_{28}H_{20}O_4NCl$ 1) Aethyläther d. 6-Chlor-3-[4-Oxyphenyl]amidofluoran. Sm. 192° (D. R. P. 85885). — *III, 574.

- $C_{28}H_{22}O_5N_2S$ 1) 1,4-Di[4-Methylphenylamido]-9,10-Anthrachinon-1²- oder -1³-Sulfonsäure (Alizarineyaningrün) (C. 1904 [1] 101; 1904 [2] 339).
- $C_{28}H_{22}O_8N_2S_2$ 1) 1,4-Di[4-Methylphenylamido]-9,10-Anthrachinon-1²,6[oder 1³,6]-Disulfonsäure (Anthrachinongrün GX) (C. 1904 [2] 340).
- $C_{28}H_{22}O_{12}N_4S_2$ 1) Disazoverbindung (aus 4,4'-Diamido-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure u. 2-Oxybenzol-1-Carbonsäure). Ba₂ (J. pr. [2] 66, 567 C. 1903 [1] 519).
- $C_{28}H_{20}O_3N_2Br$ 1) 7-Aethyläther d. 2,7-Dioxy-2,3-Diphenyl-1-[3-Bromphenyl]-1,2-Dihydro-1,4-Benzdiazin. Sm. 166—169° (B. 36, 3868 C. 1904 [1] 92).
- $C_{28}H_{24}O_2N_2S_2$ 3) Di[4-(4-Methylphenyl)merkaptophenylamid] d. Oxalsäure (Dip-Thiotolyloxanilid). Sm. 242° (J. pr. [2] 68, 269 C. 1903 [2] 993).
- $C_{28}H_{24}O_2N_2Se_2$ 1) Di[Diphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbonsäure. Sm. 123—124° (Ar. 241, 221 C. 1903 [2] 104).
- $C_{28}H_{24}O_2N_2S_2$ *1) Aethylbrillantgelb (B. 36, 2976 C. 1903 [2] 1031).
- $C_{28}H_{26}ON_4S_2$ 1) Aethyläther d. 4,4'-Di[β -Phenylthioureido]-3-Oxybiphenyl (B. 36, 4074 C. 1904 [1] 267).
- $C_{28}H_{27}O_4N_2Br_3$ 1) Acetat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Acetyl-4-Methylphenylamidomethyl]benzol. Sm. 154° (B. 37, 3910 C. 1904 [2] 1593).
- $C_{28}H_{28}O_4N_2S_2$ 2) 3,3'-Di[Methyl-4-Methylphenylsulfonamido]biphenyl. Sm. 150° (A. 332, 61 C. 1904 [2] 41).
- 3) 4,4'-Di[Methyl-4-Methylphenylsulfonamido]biphenyl. Sm. 235° (B. 37, 3772 C. 1904 [2] 1548).
- $C_{28}H_{30}O_4NJ$ 1) Benzoat d. Methylthebeninmethylätherjodmethylat. Sm. 271° (B. 37, 2788 C. 1904 [2] 716).
- $C_{28}H_{30}N_6Si$ 1) Verbindung (aus Methylsenföhl u. Silicotetraphenylamid) (Soc. 83, 255 C. 1903 [1] 875).
- $C_{28}H_{32}N_4ClP$ 4) Chlortetra[Benzylamido]phosphor. Sm. 208° (A. 326, 151 C. 1903 [1] 760).
- $C_{28}H_{38}O_4N_2J_2$ *1) Diäthylester d. stab. $\alpha\beta$ -Di[1,2,3,4-Tetrahydro-2-Isochinolyl]-äthan-2,2'-Di[Jodammoniumessigsäure]. Sm. 168—169° (B. 36, 1167 C. 1903 [1] 1187).
- *2) Diäthylester d. lab. $\alpha\beta$ -Di[1,2,3,4-Tetrahydro-2-Isochinolyl]-äthan-2,2'-Di[Jodammoniumessigsäure]. Sm. 51—53° (B. 36, 1168 C. 1903 [1] 1187).

C₂₉-Gruppe.

- $C_{29}H_{22}$ *1) 2,3,4,5-Tetraphenyl-R-Penten. Sm. 177—178° (B. 36, 936 C. 1903 [1] 1020).

— 29 II —

- $C_{29}H_{18}O_6$ 3) Dibenzoat d. 5,6-Dioxy-2-Keto-1-Benzyliden-1,2-Dihydrobenzofuran. Sm. 192,5—194° (B. 29, 2432). — *III, 532.
C 61,9 — H 3,9 — O 34,2 — M. G. 562.
- $C_{29}H_{22}O_{12}$ 1) Pentaacetat d. 2,3,7-Trioxy-9-[3,4-Dioxyphenyl]fluoron. Sm. 227 bis 231° (B. 37, 2733 C. 1904 [2] 542).
C 82,9 — H 5,7 — O 11,4 — M. G. 420.
- $C_{29}H_{24}O_3$ 1) Benzoat d. α -Oxy- γ -Keto- $\alpha\beta\delta$ -Triphenylbutan. Sm. 147—149° (M. 24, 723 C. 1904 [1] 167).
- $C_{29}H_{24}O_8$ *3) Methylenedicotoin. Sm. 128° (A. 329, 276 C. 1904 [1] 795).
- $C_{29}H_{24}O_{14}$ C 58,4 — H 4,0 — O 37,6 — M. G. 596.
- 1) Cetratasäure. Sm. 178—180° (J. pr. [2] 68, 44 C. 1903 [2] 512).
- $C_{29}H_{26}O_2$ 3) 1,2-Dioxy-1,2,3,4-Tetraphenyl-R-Pentamethylen. Sm. 171° (B. 36, 936 C. 1903 [1] 1020).
- 4) Acetat d. 5-Oxy-1,2-Diphenyl-3-[4-Isopropylphenyl]benzol. Sm. 98° (Am. 31, 146 C. 1904 [1] 806).
C 83,4 — H 6,5 — N 10,1 — M. G. 417.
- $C_{29}H_{27}N_3$ 1) 2,8-Di[Benzylamido]-3,7-Dimethylakridin (D.R.P. 141297 C. 1903 [1] 1163).

- $C_{29}H_{28}O_6$ *1) Diäthylester d. $\alpha\epsilon$ -Diketo- $\alpha\gamma\epsilon$ -Triphenylpentan- $\beta\delta$ -Dicarbonsäure (Enolform). Sm. 115—116° (95° u. Zers.) (Soc. 83, 721 C. 1903 [2] 54; G. 33 [2] 148 C. 1903 [2] 1270).
- 2) Diäthylester d. isom. $\alpha\epsilon$ -Diketo- $\alpha\gamma\epsilon$ -Triphenylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 93—94° (G. 33 [2] 149 C. 1903 [2] 1270).
- 3) Diäthylester d. isom. $\alpha\epsilon$ -Diketo- $\alpha\gamma\epsilon$ -Triphenylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 132° (G. 33 [2] 149 C. 1903 [2] 1270).
- $C_{29}H_{30}N_2$ C 85,7 — H 7,4 — N 6,9 — M. G. 406.
- 1) Di[Dibenzylamido]methan. Sm. 97° (B. 36, 1199 C. 1903 [1] 1215).
- 2) 4,4'-Di[Methylbenzylamidophenyl]methan. Sm. 50°. Pikrat (D.R.P. 68665; B. 37, 2676 C. 1904 [2] 443).
- 3) Phenylimido- α -Phenylamidobenzylidencampher. Sm. 117—118° (Soc. 83, 105 C. 1903 [1] 233, 458).
- $C_{29}H_{32}O_{12}$ 2) Hexaacetat d. Di[2,4,6-Trioxo-3,5-Dimethylphenyl]methan. Sm. 232—233° (M. 25, 671 C. 1904 [2] 1145).
- $C_{29}H_{32}N_4$ 3) Di[6-Amido-4-Benzylamido-3-Methylphenyl]methan. Sm. 157° (D.R.P. 141297 C. 1903 [1] 1163).
- $C_{29}H_{33}N_3$ C 82,3 — H 7,8 — N 9,9 — M. G. 423.
- 1) Di[4-Dimethylamidophenyl]-4-Aethylamido-1-Naphtylketon. Sm. 172—173° (C. 1903 [1] 87; B. 37, 1908 C. 1904 [2] 115).
- 2) Di[4-Dimethylamidophenyl]-4-Dimethylamido-1-Naphtylmethan. Sm. 172° (C. 1903 [1] 87).
- $C_{29}H_{36}O_{10}$ C 64,0 — H 6,6 — O 29,4 — M. G. 544.
- 1) Diacetat d. Aspidin. Sm. 108° (A. 329, 328 C. 1904 [1] 800).
- $C_{29}H_{44}O_3$ 2) Äthyläther d. Oxycholestenon. Sm. 165° (C. 1903 [1] 815).
- $C_{29}H_{44}O_{13}$ C 58,0 — H 7,3 — O 34,7 — M. G. 600.
- 1) Abyssinin (C. 1903 [1] 1425).
- $C_{29}H_{46}O_9$ C 78,7 — H 10,4 — O 10,9 — M. G. 442.
- 1) Acetat d. Cholestanonol. Sm. 127° (128°) (M. 24, 653 C. 1903 [2] 1235; B. 36, 3755 C. 1903 [2] 1417).
- $C_{29}H_{46}O_5$ 2) Dimethylester d. Säure $C_{27}H_{42}O_5$. Sm. 113—114° (B. 36, 3757 C. 1903 [2] 1418).
- $C_{29}H_{48}O_2$ C 81,3 — H 11,2 — O 7,5 — M. G. 428.
- 1) Propionat d. Phytosterin. Sm. 102,5—103,5° (C. 1903 [2] 125).
- 2) Verbindung (aus Asclepias syriaca L.). Sm. 55—60° (J. pr. [2] 68, 402 C. 1904 [1] 105).
- $C_{29}H_{48}O_8$ C 78,4 — H 10,8 — O 10,8 — M. G. 444.
- 1) Verbindung (aus Asclepias syriaca L.) oder $C_{30}H_{50}O_8$. Sm. 71—75° (J. pr. [2] 68, 452 C. 1904 [1] 191).
- $C_{29}H_{48}O_4$ 2) Dimethylester d. Säure $C_{27}H_{44}O_4$ (aus Cholesterin). Sm. 69° (B. 37, 3097 C. 1904 [2] 1535).
- 3) Monoäthylester d. Säure $C_{27}H_{44}O_4$ (aus Cholesterin). Sm. 151° (corr.) (B. 36, 3181 C. 1903 [2] 936; B. 37, 3097 C. 1904 [2] 1535).
- 29 III —
- $C_{29}H_{26}O_3N_2$ C 78,4 — H 4,5 — O 10,8 — N 6,3 — M. G. 444.
- 1) Azin (aus Benzoylmethylmorpholchinon u. o-Toluyldiamin) (B. 31, 3202). — *III, 322.
- $C_{29}H_{26}O_4N_2$ C 75,7 — H 4,3 — O 13,9 — N 6,1 — M. G. 460.
- 1) Dibenzoylderivat d. 4-Oxy-5-Keto-1,3-Diphenyl-4,5-Dihydro-pyrazol (B. 36, 1137 C. 1903 [1] 1254).
- $C_{29}H_{26}N_3S$ 1) s-Di[9-Phenanthryl]thioharnstoff. Sm. 229° (B. 36, 2516 C. 1903 [2] 507).
- $C_{29}H_{28}ON$ 4) 4-Dimethylamidophenyldinaphtopyran. Sm. 207—208° (C. r. 138, 576 C. 1904 [1] 957).
- $C_{29}H_{28}O_4N_3$ C 72,9 — H 4,8 — O 13,4 — N 8,8 — M. G. 477.
- 1) Di[Diphenylamid] d. Acetoximidomalonsäure. Sm. 190° (C. 1904 [1] 1555).
- $C_{29}H_{24}ON_2$ 2) N-[2,4,6-Trimethylphenyl]- α' -Phenylpyrophtalin. Sm. 230° (B. 36, 3923 C. 1904 [1] 98).
- $C_{29}H_{24}ON_4$ 2) 4,4'-Di[Methyleyanamido]-4''-Oxytetraphenylmethan. Sm. 205° (B. 37, 643 C. 1904 [1] 951).

- $C_{29}H_{24}O_3N_2$ * 1) 4,4'-Di[Methylbenzoylamidophenyl]keton. Sm. 204° (102°?) (B. 37, 2677 C. 1904 [2] 444).
C 75,2 — H 5,4 — O 10,3 — N 9,1 — M. G. 463.
- $C_{29}H_{25}O_3N_3$ 1) Di[Diphenylamid] d. Aethoximidomalonsäure. Sm. 164—165° (C. 1904 [1] 1555).
- $C_{29}H_{25}N_6Br$ 1) Verbindung (aus Pyridin u. Amidoazobenzol). Sm. 159° (J. pr. [2] 69, 132 C. 1904 [1] 816).
- $C_{29}H_{26}OS_2$ 2) Diphenyläther d. α -Keto- γ δ -Dimerkapto- α δ -Diphenylpentan. Sm. 102° (B. 37, 510 C. 1904 [1] 884).
- $C_{29}H_{26}O_2N_2$ 5) Di[Benzoyl-4-Methylphenylamido]methan (B. 37, 3117 C. 1904 [2] 1316).
6) α -Benzoyl- β -[4-Methylbenzoyl]- α β -Di[2-Methylphenyl]hydrazin. Sm. 182° (C. r. 137, 714 C. 1903 [2] 1428).
7) 7-Aethyläther d. 2,7-Dioxy-2,3-Diphenyl-1-[2-Methylphenyl]-1,2-Dihydro-1,4-Benzdiazin. Sm. 172° (B. 36, 3563 C. 1904 [1] 91).
- $C_{29}H_{26}O_3N_2$ C 77,3 — H 5,8 — O 10,7 — N 6,2 — M. G. 450.
1) Trimethyläther d. 4,4'-Di[4-Oxybenzylidenamido]-2-Oxybiphenyl. Sm. 150° (B. 36, 4078 C. 1904 [1] 268).
C 74,7 — H 5,6 — O 13,7 — N 6,0 — M. G. 466.
- $C_{29}H_{26}O_4N_2$ 1) β β -Di[β -2-Oxybenzylidenamido-4-Oxyphenyl]propan (C. 1904 [2] 1737).
C 67,3 — H 5,2 — O 24,8 — N 2,7 — M. G. 517.
- $C_{29}H_{27}O_8N$ 1) Diäthylester d. α δ -Diketo- γ -[3-Nitrophenyl]- α δ -Diphenylpentan- β δ -Dicarbonsäure. Sm. 128—129° (Soc. 83, 722 C. 1903 [2] 55).
- $C_{29}H_{27}N_4Cl$ 1) Verbindung (aus Benzidin u. 2,4-Dinitrophenylpyridinchlorid). Sm. 179—180° (J. pr. [2] 68, 261 C. 1903 [2] 1064).
- $C_{29}H_{28}ON_2$ 5) 4,4'-Di[Methylbenzylamido]diphenylketon. Sm. 182° (D. R. P. 72808). — * III, 150.
- $C_{29}H_{28}O_3N_4$ 3) 4,4'-Di[α -Methyl- β -Phenylureidophenyl]methan. Sm. 186—187° (B. 37, 2675 C. 1904 [2] 443).
C 61,3 — H 4,9 — O 14,1 — N 19,7 — M. G. 568.
- $C_{29}H_{28}O_5N_8$ 1) α -Oxydi[4'-Nitro-3-Methylamido-4-Methylazobenzol]methan? Sm. 168—169° (C. 1903 [1] 400).
C 65,9 — H 5,3 — O 18,2 — N 10,6 — M. G. 528.
- $C_{29}H_{28}O_6N_4$ 1) 2,2-Dimethyläther d. Di[2,4,6-Trioxo-3,5-Diphenylazo-3-Methylphenyl]methan. Sm. 245° (A. 329, 285 C. 1904 [1] 796).
2) Methylenbisbenzolazofilicinsäure. Sm. 223—224° (A. 329, 298 C. 1904 [1] 797).
- $C_{29}H_{28}N_3S_8$ 1) Di[4-Methylphenyläther] d. s-Di[4-Merkapto-2-Methylphenyl]-thioharnstoff. Sm. 151° (J. pr. [2] 68, 286 C. 1903 [2] 995).
- $C_{29}H_{28}N_4S_2$ 1) 4,4'-Di[α -Methyl- β -Phenylthioureidophenyl]methan. Sm. 153° (B. 37, 2676 C. 1904 [2] 443).
C 77,2 — H 6,4 — O 7,1 — N 9,3 — M. G. 451.
- $C_{29}H_{29}O_2N_8$ 1) α -[2-Nitrophenyl]- α α -Di[2-Methyl-1-Aethyl-3-Indolyl]methan. Sm. 220—221° (B. 37, 323 C. 1904 [1] 668).
C 82,4 — H 7,1 — O 3,8 — N 6,6 — M. G. 422.
- $C_{29}H_{30}ON_2$ 1) α -[2-Oxyphenyl]- α α -Di[2-Methyl-1-Aethyl-3-Indolyl]methan. Sm. 229° (B. 37, 323 C. 1904 [1] 668).
- $C_{29}H_{30}O_4N_2$ 2) 4,4'-Di[Diacetylamido]-3,3'-Dimethyltriphenylmethan. Sm. 165 bis 166° (C. 1904 [2] 227).
- $C_{29}H_{31}ON_8$ 2) Di[4-Dimethylamidophenyl]-4-Acetylamido-1-Naphtylmethan. Sm. 228—229° (C. 1903 [1] 87; B. 37, 1908 C. 1904 [2] 115).
- $C_{29}H_{31}O_5Cl$ 1) Chlorhydrin d. Dehydrodioxyparasantonsäuredibenzylester. Sm. 129—130° (C. 1903 [2] 1447).
C 74,4 — H 6,8 — O 6,8 — N 12,0 — M. G. 468.
- $C_{29}H_{32}O_2N_4$ 1) 4,4'-Di[4-Dimethylamidophenylamido]-2,2'-Dioxydiphenylmethan? Sm. 150° (J. pr. [2] 69, 240 C. 1904 [1] 1269).
- $C_{29}H_{32}N_5Cl$ 1) Chlorid d. α -Oxy- α α -Di[4-Dimethylamidophenyl]- α -[4-Aethylamido-1-Naphtyl]methan (Neuvictoriablau). Sm. 183—184° (B. 37, 1913 C. 1904 [2] 115).
- $C_{29}H_{36}O_6S_3$ 1) β ξ ξ -Tribenzylsulfon- β -Methylheptan. Sm. 158° (B. 37, 508 C. 1904 [1] 883).

- $C_{29}H_{37}O_3N_3$ C 73,3 — H 7,8 — O 10,1 — N 8,8 — M. G. 475.
 1) Aethyl ester d. α -Oxy-4',4''-Di[Dimethylamido]-3-Methyltriphenylmethan- α -Aethyläther-6-Amidoameisensäure. Sm. 170—172° u. Zers. (B. 36, 2781 C. 1903 [2] 881).
 $C_{29}H_{40}O_{12}N_4$ C 54,7 — H 6,3 — O 30,2 — N 8,8 — M. G. 636.
 1) Tetraäthylester d. Hippurylasparagylasparaginsäure. + Stickstoffwasserstoff (Sm. unterhalb 150°) (J. pr. [2] 70, 182 C. 1904 [2] 1397).
 $C_{29}H_{42}O_{12}N_8$ C 52,2 — H 6,3 — O 28,8 — N 12,6 — M. G. 666.
 1) Hydrazitetrahydrazid d. Hippuryldiasparagylasparaginsäure. Sm. 175° u. Zers. (J. pr. [2] 70, 192 C. 1904 [2] 1398).
 $C_{29}H_{45}O_4N$ C 73,9 — H 9,5 — O 13,6 — N 3,0 — M. G. 471.
 1) Nitrocholesterylacetat. Sm. 101—102° (M. 24, 652 C. 1903 [2] 1235).
 $C_{29}H_{45}O_5N$ C 71,4 — H 9,2 — O 16,4 — N 2,9 — M. G. 487.
 1) Acetat d. Nitrooxycholesterin. Sm. 103—104° (C. 1903 [1] 814).
 $C_{29}H_{47}O_5N$ C 71,1 — H 9,6 — O 16,4 — N 2,9 — M. G. 489.
 1) Dimethylester d. Oximsäure $C_{27}H_{43}O_5N$. Sm. 76° (B. 36, 3758 C. 1903 [2] 1418).

— 29 IV —

- $C_{29}H_{22}O_3NCl$ 1) 6-Chlor-3-[2,4,6-Trimethylphenyl]amidofluoran. Sm. 160° (D. R. P. 85885). — *III, 574.
 $C_{29}H_{23}O_3N_2S$ 1) 2-Pararosaminnaphtalin-6-Sulfonsäure (C. 1904 [1] 1013).
 $C_{29}H_{23}O_7NS_2$ 1) 2-Naphtalinsulfonat d. 1- α -[2-Naphtylsulfon]amido- β -[4-Oxyphenyl]propionsäure. Na (B. 36, 2905 C. 1903 [2] 619).
 $C_{29}H_{41}O_2NBr_3$ 1) N-Palmitylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 56—57° (A. 332, 203 C. 1904 [2] 211).
 $C_{29}H_{40}O_9NJ$ 1) Jodmethylat d. Isopyroin (C. 1903 [1] 650).

C₃₀-Gruppe.

- $C_{30}H_{48}$ 4) Kohlenwasserstoff (aus Guttapercha). Sd. 280—306°₁₃ (C. 1903 [1] 83).

— 30 II —

- $C_{30}H_{18}O_8$ 3) 5,6-Dibenzoat d. 5,6-Dioxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran-3,4-Methylenäther. Sm. 178° (B. 29, 2435). — *III, 534.
 $C_{30}H_{20}O_8$ 2) Diacetat d. Resorcinanthrachinon (B. 36, 2023 C. 1903 [2] 378).
 $C_{30}H_{20}O_7$ 2) Aethyl ester d. 4,7-Dibenzoxyl-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Fl. (B. 34, 1953 C. 1903 [2] 296).
 $C_{30}H_{22}O_3$ 4) Acetat d. 4-Oxy-3-Methylphenyldinaphtopyran. Sm. 240° (C. r. 138, 283 C. 1904 [1] 730).
 5) Acetat d. 6-Oxy-3-Methylphenyldinaphtopyran. Sm. 232—233° (C. r. 138, 284 C. 1904 [1] 730).
 $C_{30}H_{22}O_5$ 3) Diacetat d. 10-Keto-9,9-Di[4-Oxyphenyl]-9,10-Dihydroanthracen. Sm. 244° (B. 36, 2021 C. 1903 [2] 378).
 $C_{30}H_{22}N_8$ C 72,8 — H 4,4 — N 22,7 — M. G. 494.
 1) 1-[4,4'-Biphenylenazo]-2-Phenylimidazol. Zers. bei 260° (B. 37, 700 C. 1904 [1] 1562).
 $C_{30}H_{24}O_2$ 6) Aethyläther d. 6-Oxy-3-Methylphenyldinaphtopyran. Sm. 240 bis 241° (C. r. 138, 284 C. 1904 [1] 730).
 7) 3,4-Dibenzoyl-1,2-Diphenyl-R-Tetramethylen. Sm. 134° (B. 37, 1147 C. 1904 [1] 1266).
 8) Acetat d. 9-[α -Oxybenzyl]-10-Benzylanthracen. Sm. 158° (M. 25, 804 C. 1904 [2] 1137).
 $C_{30}H_{24}O_7$ C 72,6 — H 4,8 — O 22,6 — M. G. 496.
 1) Dichrysarobin. Zers. oberh. 250° (Soc. 81, 1580 C. 1903 [1] 34, 167).
 $C_{30}H_{28}O$ *3) Aethyläther d. 9-[α -Oxybenzyl]-10-Benzylanthracen. Sm. 197°.
 $C_{30}H_{28}O_{15}$ 4 + C₆H₈ (Sm. 217°) (M. 25, 802 C. 1904 [2] 1137).
 C 57,5 — H 4,1 — O 38,3 — M. G. 626.
 1) Ramalinsäure. Sm. 240—245° (J. pr. [2] 68, 24 C. 1903 [2] 511).
 $C_{30}H_{28}O_9$ 2) Anchusasäure (Anchusaroth) (C. 1903 [1] 1041).

- $C_{30}H_{30}O$ C 88,7 — H 7,4 — O 3,9 — M. G. 406.
 1) 5-Oxy-3-Phenyl-1,2-Di[4-Isopropylphenyl]benzol. Sm. 137° (*Am.* 31, 151 *C.* 1904 [1] 807).
- $C_{30}H_{30}O_3$ C 69,5 — H 5,8 — O 24,7 — M. G. 518.
 1) Dimethyläther d. Tetrajuajakhydrochinon. Sm. 80° (*Bl.* [3] 31, 189 *C.* 1904 [1] 939).
- $C_{30}H_{30}O_{10}$ C 63,5 — H 5,4 — O 29,1 — M. G. 550.
 1) Diacetat d. Verb. $C_{26}H_{26}O_8$. Sm. 80—95° (*R.* 22, 142 *C.* 1903 [2] 124).
- $C_{30}H_{32}O_2$ C 84,9 — H 7,5 — O 7,5 — M. G. 424.
 1) 4-Keto-1-Oxy-2-Phenyl-1,6-Di[4-Isopropylphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 214° (*Am.* 31, 150 *C.* 1904 [1] 807).
- $C_{30}H_{32}O_7$ C 71,4 — H 6,3 — O 22,2 — M. G. 504.
 1) Alkannasäure (Alkanmaroth) (*C.* 1903 [1] 1041).
- $C_{30}H_{34}O_{10}$ 2) Diacetylderivat d. Triäthylester $C_{26}H_{30}O_8$. Sm. 104° (*M.* 24, 85 *C.* 1903 [1] 769).
- $C_{30}H_{35}O_5$ C 75,3 — H 7,9 — O 16,7 — M. G. 478.
 1) Anhydrid d. Desmotroposantonigen Säure (*G.* 25 [1] 541). — *II, 978.
- $C_{30}H_{42}O_9$ C 65,9 — H 7,7 — O 26,4 — M. G. 546.
 1) Photosantoninsäure. Sm. 258—260°. Ba, Ag_2 (*G.* 33 [2] 65 *C.* 1903 [2] 1182).
- $C_{30}H_{44}O$ 2) Albanan. Sm. 61° (*Ar.* 241, 487, 489 *C.* 1903 [2] 1178).
- $C_{30}H_{44}O_2$ C 82,6 — H 10,1 — O 7,3 — M. G. 436.
 1) Sphäritban. Sm. 152° (*Ar.* 241, 484 *C.* 1903 [2] 1178; *C.* 1904 [1] 517).
- 2) Isosphäritban. Sm. 142° (*Ar.* 241, 489 *C.* 1903 [2] 1178).
- $C_{30}H_{44}O_3$ C 67,7 — H 8,3 — O 24,0 — M. G. 532.
 1) Alkannagrün (*C.* 1903 [1] 1041).
- $C_{30}H_{44}O_{18}$ 3) Oktoäthylester d. Hexahydrobenzol-1,1,2,2,4,4,5,5-Oktocarbon-säure. Sm. 46° (*Soc.* 83, 782 *C.* 1903 [2] 201, 439).
- $C_{30}H_{45}O_3$ 1) Verbindung (aus Guttapercha) = $(C_{30}H_{45}O_3)_x$. Sm. 144° (*C.* 1903 [1] 84).
- $C_{30}H_{48}O_{12}$ *1) Quabain + 9H₂O (Strophantin). Sm. 187—188° (*C.* 1904 [1] 1277).
- $C_{30}H_{48}O_2$ 4) Amyrinsäure. Sm. 126—127° (*Ar.* 242, 361 *C.* 1904 [2] 527).
- $C_{30}H_{49}O_3$ 3) Gratiolon. Na (*Ar.* 240, 567 *C.* 1903 [1] 42).
- 4) Verbindung (aus Ficus magnol. Borci). Sm. 115° (*B.* 37, 3847 *C.* 1904 [2] 1613).
- 5) Verbindung (aus Guttapercha) oder $C_{40}H_{54}O_4$. Sm. 160° (*C.* 1903 [1] 84).
- $C_{30}H_{49}O_{13}$ 2) Acocantherin (*C.* 1903 [2] 886).
- $C_{30}H_{50}O$ *1) α -Amyrin. Sm. 181° (*Ar.* 241, 155 *C.* 1903 [1] 1029; *Ar.* 242, 119 *C.* 1904 [1] 1011).
- *2) β -Amyrin. Sm. 192° (*Ar.* 241, 155 *C.* 1903 [1] 1029; *J. pr.* [2] 68, 451 *C.* 1904 [1] 191; *Ar.* 242, 120 *C.* 1904 [1] 1011).
- *6) Propionat d. Cholesterin. Sm. 98° (*B.* 37, 3424 *C.* 1904 [2] 1295).
- $C_{30}H_{50}O_2$ C 71,1 — H 9,9 — O 19,0 — M. G. 506.
- $C_{30}H_{50}O_3$ 1) Sapogenin (*Ar.* 241, 615 *C.* 1904 [1] 169).
- 2) 1-Dimethylester d. β' -Diketo- δ -Methylheptan- γ -Dicarbonsäure. Sm. 194—196° (*Soc.* 85, 51 *C.* 1904 [1] 360, 788).
- $C_{30}H_{50}O_{13}$ C 58,2 — H 8,1 — O 33,7 — M. G. 618.
- 1) Hemipolylaktid. Sm. 165° (*Bl.* [3] 31, 312 *C.* 1904 [1] 1134).
- $C_{30}H_{58}O_4$ C 74,7 — H 12,0 — O 13,3 — M. G. 482.
- 1) Dimyristat d. $\alpha\beta$ -Dioxyäthan. Sm. 64°; Sd. 208° (*B.* 36, 4340 *C.* 1904 [1] 433).

- $C_{30}H_{20}O_2N_2$ 3) 4-[2-Naphtylazo]-3,3'-Dioxy-2,2'-Binaphtyl (*C. r.* 138, 1618 *C.* 1904 [2] 338).
- $C_{30}H_{21}OP$ 1) Tri[1-Naphtyl]phosphinoxid (*C. r.* 139, 675 *C.* 1904 [2] 1638).
- $C_{30}H_{21}O_3B$ *1) Tri[2-Naphtylester] d. Borsäure. Sm. 116° (*B.* 36, 2223 *C.* 1903 [2] 420).
- 2) Tri[1-Naphtylester] d. Borsäure. Sm. 84—85° (*B.* 36, 2222 *C.* 1903 [2] 420).

- $C_{30}H_{22}O_6N_2$ C 71,2 — H 4,3 — O 19,0 — N 5,5 — M. G. 306.
 1) Bisnitrosodibenzoylmethan. Sm. 125° u. Zers. (B. 37, 1530 C. 1904 [1] 1608).
 2) $\alpha\beta$ -Di[2-o-Oxybenzylidenamidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (A. 332, 276 C. 1904 [2] 701).
- $C_{30}H_{22}O_6N_6$ C 64,0 — H 3,9 — O 17,1 — N 14,9 — M. G. 562.
 1) $\alpha\gamma$ -Di[4-Nitrophenylhydrazon]- β -Phtalyl- α -Phenylbutan. Sm. 243° (B. 37, 581 C. 1904 [1] 939).
- $C_{30}H_{25}ON$ *3) 2, 3, 4-Triphenyl-3, 4-Dihydro-1, 3- α -Naphtisoxazin. Sm. 158° (C. r. 138, 1612 C. 1904 [2] 345).
- $C_{30}H_{24}O_2N_4$ 4) $\alpha\gamma$ -Di[Phenylhydrazon]- β -Phtalyl- α -Phenylbutan. Sm. 181° (B. 37, 580 C. 1904 [1] 939).
- $C_{30}H_{24}O_4N_4$ 2) 4, 8-Di[Acetylamido]-1, 5-Di[Phenylamido]-9, 10-Anthrachinon. Sm. oberh. 300° (D. R. P. 148767 C. 1904 [1] 557).
- $C_{30}H_{24}O_4S_2$ 1) Di[4-Aethoxyphenyläther]d. 1, 8-Dimerkapto-9, 10-Anthrachinon. Sm. 251° (D. R. P. 116951 C. 1901 [1] 210). — *III, 308.
- $C_{30}H_{24}O_6N_4$ 2) 2-Dinitro-1, 5-Di[2, 4-Dimethylphenylamido]-9, 10-Anthrachinon (D. R. P. 142512 C. 1903 [2] 84).
- $C_{30}H_{24}O_{13}N_6$ C 53,3 — H 3,5 — O 30,8 — N 12,4 — M. G. 676.
 1) Verbindung (aus Benzalacetophenon). Zers. bei 125—130° (A. 328, 222 C. 1903 [2] 998).
- $C_{30}H_{26}O_6N_2$ C 70,6 — H 5,1 — O 18,8 — N 5,5 — M. G. 510.
 1) Verbindung (aus Benzalnitroacetophenon). Sm. 218° u. Zers. (B. 36, 3019 C. 1903 [2] 1001).
- $C_{30}H_{27}OCl$ 1) Verbindung (aus β -Chlor- $\alpha\gamma$ -Diphenylpropen). Sm. 197° (B. 37, 1144 C. 1904 [1] 1266).
- $C_{30}H_{28}ON_2$ C 83,3 — H 6,5 — O 3,7 — N 6,5 — M. G. 432.
 1) 9, 9-Di[4-Dimethylamidophenyl]-10-Keto-9, 10-Dihydroanthracen. Sm. 278° (C. r. 136, 536 C. 1903 [1] 837).
- $C_{30}H_{28}O_2N_2$ 11) 4, 4'-Di[Benzoyläthylamido]biphenyl. Sm. 184,5—185,5 (C. 1903 [1] 1128; B. 35, 4184 C. 1903 [1] 143).
 12) 3, 4-Methylenäther d. α -[3, 4-Dioxyphenyl]- $\alpha\alpha$ -Di[2-Methyl-1-Aethyl-3-Indolyl]methan. Sm. 175° (B. 37, 323 C. 1904 [1] 668).
- $C_{30}H_{28}O_2N_4$ 4) 1, 5-Di[Methylamido]-4, 8-Di[4-Methylphenylamido]-9, 10-Anthrachinon (D. R. P. 139581 C. 1903 [1] 680).
- $C_{30}H_{28}O_3N_2$ 5) 3-Aethyläther d. 4, 4'-Di[4-Methoxybenzylidenamido]-3-Oxybiphenyl. Sm. 146—147° (B. 36, 4073 C. 1904 [1] 267).
- $C_{30}H_{28}N_4S$ 1) 3, 5-Di[4-Methylphenylimido]-2, 4-Diphenyltetrahydro-1, 2, 4-Thio-diazol. Sm. 139° (B. 36, 3133 C. 1903 [2] 1071).
- $C_{30}H_{29}ON_3$ C 80,5 — H 6,5 — O 3,6 — N 9,4 — M. G. 447.
 1) Hydroxylaminderivat d. Base $C_{30}H_{30}O_2N_2$. Sm. 210° (C. r. 137, 608 C. 1903 [2] 1180).
- $C_{30}H_{29}O_9N$ C 65,8 — H 5,3 — O 26,3 — N 2,6 — M. G. 547.
 1) Aluminid. Sm. 234° (C. 1903 [1] 1142).
- $C_{30}H_{29}O_{11}N_9$ C 59,3 — H 4,8 — O 29,0 — N 6,9 — M. G. 607.
 1) Diäthylester d. β -Keto- $\alpha\alpha\gamma$ -Tri[4-Nitrobenzyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 167,5—168,5° (B. 37, 1995 C. 1904 [2] 27).
- $C_{30}H_{30}O_2N_2$ C 80,0 — H 6,7 — O 7,1 — N 6,2 — M. G. 450.
 1) 2-Dimethylamido-9, 10-Dioxy-9-Phenyl-10-[4-Dimethylamidophenyl]-9, 10-Dihydroanthracen. Sm. 140° (C. r. 137, 608 C. 1903 [2] 1180).
- $C_{30}H_{30}O_6N_2$ C 70,0 — H 5,8 — O 18,7 — N 5,4 — M. G. 314.
 1) Dibenzoylisatyd. Sm. 186° (B. 37, 945 C. 1904 [1] 1217).
- $C_{30}H_{30}O_6N_4$ C 66,4 — H 5,5 — O 17,7 — N 10,3 — M. G. 542.
 1) Verbindung (aus Anisylnitroformaldehydrazon). Sm. 219—220° (B. 36, 365 Anm. C. 1903 [1] 577).
- $C_{30}H_{31}O_8N_5$ C 64,2 — H 5,5 — O 22,8 — N 7,5 — M. G. 561.
 1) Triäthylester d. 2, 5-Dimethylpyrrol-1-Phenylazobenzoylbrenztraubensäure-3, 4-Dicarbonsäure. Sm. 122° (B. 36, 796 C. 1903 [1] 723).
- $C_{30}H_{32}O_6N_2$ C 72,0 — H 6,4 — O 16,0 — N 5,6 — M. G. 500.
 1) Casimirin. Sm. 106° (Ar. 241, 172 C. 1903 [2] 125).

- $C_{30}H_{33}O_2N$ C 82,0 — H 7,5 — O 7,3 — N 3,2 — M. G. 439.
 1) 4-Oximido-1-Oxy-2-Phenyl-1,6-Di[4-Isopropylphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 208° (*Am.* 31, 150 *C.* 1904 [1] 807).
- $C_{30}H_{36}O_5N_2$ 2) Verbindung (aus Parasantoninhydroxamsäure). Sm. 258° (*C.* 1903 [2] 1377).
- $C_{30}H_{35}O_3N_2$ 2) Aethylester d. α -Oxy-4,4'-Di[Diäthylamido]triphenylmethan-2''-Carbonsäure (D.R.P. 98863). — *II, 1019.
- $C_{30}H_{40}O_6N_2$ C 68,7 — H 7,6 — O 18,3 — N 5,3 — M. G. 524.
 1) Hydrazon d. Santonsäure. Sm. 206—207° (*G.* 33 [1] 198 *C.* 1903 [2] 45).
 C 64,5 — H 7,5 — O 22,9 — N 5,0 — M. G. 558.
- $C_{30}H_{42}O_3N_2$ 1) Sesquicamphorylhydroxylamin. Sm. 256° (*C.* 1903 [1] 1410; *Soc.* 83, 954 *C.* 1903 [2] 665).
 C 54,0 — H 6,3 — O 31,2 — N 8,4 — M. G. 666.
- $C_{30}H_{42}O_{13}N_4$ 1) Nukleotin. Ba₄ + 11 H₂O (*C.* 1904 [2] 134).
- $C_{30}H_{44}O_4N_2$ *1) Emetin (*C.* 1903 [1] 92).
- $C_{30}H_{46}O_4Cl_4$ 1) Dilaurat d. 2,3,5,6-Tetrachlor-1,4-Dioxybenzol. Sm. 83—84° (*Bt.* [3] 29, 1123 *C.* 1904 [1] 259).
- $C_{30}H_{47}O_2N$ C 79,5 — H 10,4 — O 7,0 — N 3,1 — M. G. 453.
 1) Acetylphenylamid d. Behenolsäure. Sm. 45° (*B.* 36, 3602 *C.* 1903 [2] 1314).
- $C_{30}H_{37}O_6N_{17}$ *1) Salmin. 2(2HCl, PtCl₄) (*H.* 37, 95 *C.* 1903 [1] 236).
- $C_{30}H_{32}O_9N_{14}$ C 47,2 — H 8,1 — O 18,9 — N 25,7 — M. G. 762.
 1) Clupein. 2(2HCl, PtCl₄) (*H.* 37, 99 *C.* 1903 [1] 236).

— 30 IV —

- $C_{30}H_{18}O_3NCl$ 1) 6-Chlor-3-[1-Naphtyl]amidofluoran. Sm. 196° (D.R.P. 85885). — *III, 574.
 2) 6-Chlor-3-[2-Naphtyl]amidofluoran. Sm. 216° (D.R.P. 85885). — *III, 574.
- $C_{30}H_{21}O_7NS_3$ 1) α -Trinaphtalinsulphhydroxylamin. Zers. bei 270—280° (*G.* 33 [2] 311 *C.* 1904 [1] 288).
- $C_{30}H_{22}O_2N_4Br_2$ 1) α -Di[4-Bromphenylhydrazon]- β -Phtalyl- α -Phenylbutan. Sm. 201° (*B.* 37, 581 *C.* 1904 [1] 940).
- $C_{30}H_{22}O_6NCl_3$ 1) Tri[4-Chlorbenzoyl]adrenalin. Sm. 75° (*B.* 37, 4151 *C.* 1904 [2] 1744).
- $C_{30}H_{37}O_6ClSi$ 1) Tribenzoylacetonysiliciumchlorid. + FeCl₃, + AuCl₃ (*B.* 36, 1596 *C.* 1903 [2] 30).
- $C_{30}H_{23}O_2N_2S_2$ 3) Di[4-(4-Methylphenyl)merkapt-2-Methylphenylamid] d. Oxalsäure. Sm. 198—199° (*J. pr.* [2] 68, 284 *C.* 1903 [2] 995).
 4) Di[4-(4-Methylphenyl)merkapt-3-Methylphenylamid] d. Oxalsäure. Sm. 207° (*J. pr.* [2] 68, 291 *C.* 1903 [2] 995).
- $C_{30}H_{23}O_2N_2Se_2$ 1) Di[Phenylbenzylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbonsäure. Sm. 81° (*Ar.* 241, 220 *C.* 1903 [2] 104).
- $C_{30}H_{28}O_3N_4S_2$ 1) Chrysopheninsäure. Na₂ (*B.* 36, 2975 *C.* 1903 [2] 1031).
 2) Diäthylbrillantgelb (*B.* 36, 2976 *C.* 1903 [2] 1031).
- $C_{30}H_{30}O_4N_6S$ 1) Tetra[Phenylhydrazid] d. Dimethylsulfid- $\alpha\alpha\beta\beta$ -Tetracarbon-säure. Sm. 120° (*B.* 36, 3725 *C.* 1903 [2] 1416).
- $C_{30}H_{34}N_6S_2Si$ 1) Verbindung (aus Aethylsenfö u. Silikotetraphenylamid) (*Soc.* 83, 254 *C.* 1903 [1] 572, 875).

C₃₁-Gruppe.

- $C_{31}H_{34}$ *1) Hentriakontan. Sm. 67—68° (*C.* 1903 [2] 893; 1904 [2] 1418).

— 31 II —

- $C_{31}H_{20}O_2$ *1) Naphtyloldinaphtopyran (Tri[2-Oxynaphtyl]methanoxyd). Sm. 273° (*C. r.* 137, 860 *C.* 1904 [1] 104).
- $C_{31}H_{22}O$ 2) isom. α -Oxytri[β -Naphtyl]methan (*B.* 37, 1638 *C.* 1904 [1] 1649).

- $C_{31}H_{34}O$ C 90,3 — H 5,8 — O 3,9 — M. G. 412.
 1) α -Keton (aus Anhydroacetondibenzil). Sm. 187—188° (Soc. 69, 744). — *III, 206.
 2) β -Keton (aus Anhydroacetondibenzil). Sm. 155—159° (Soc. 69, 744). — *III, 206.
- $C_{31}H_{24}N_2$ 3) 4-Phenylimido-1-[4-Phenylamidodiphenyl]methylen-1,4-Dihydrobenzol (p-Phenylamidofuchsonphenylimin). Sm. 166—168°. Pikrat (B. 37, 2866 C. 1904 [2] 776).
- $C_{31}H_{25}N_3$ 2) Pentaphenyguanidin. Sm. 177—179°. (2HCl, PtCl₄) (B. 37, 965 C. 1904 [1] 1002).
- $C_{31}H_{26}O_7$ C 73,0 — H 5,1 — O 21,9 — M. G. 510.
 1) Methyläther d. Dichrysarobin. Sm. 160° (Soc. 81, 1582 C. 1903 [1] 34, 167).
- $C_{31}H_{27}N$ C 90,1 — H 6,5 — N 3,4 — M. G. 413.
 1) Verbindung (aus 2-Keto-1,3-Dibenzyliden-R-Pentamethylen). Sm. 237° (B. 36, 1500 C. 1903 [1] 1351).
- $C_{31}H_{28}O_{10}$ C 66,4 — H 5,0 — O 28,6 — M. G. 560.
 1) Nataloresinotannol-p-Cumarsäureester (Ar. 239, 238). — *III, 418.
 2) Ugandaaloresinotannol-p-Cumarsäureester (Ar. 239, 247). — *III, 419.
- $C_{31}H_{30}O_{14}$ 2) Pentaacetat d. Barbaloin. Sm. 166,4° (C. 1903 [1] 234).
- $C_{31}H_{31}N_3$ 2) 4-Dimethylamidophenyldi[4-Methylamido-1-Naphtyl]methan (B. 37, 1910 C. 1904 [2] 115).
- $C_{31}H_{38}O_{10}$ 2) Diffusin. Sm. 135° (A. 327, 321 C. 1903 [2] 508).
- $C_{31}H_{42}O_2$ C 83,4 — H 9,4 — O 7,2 — M. G. 446.
 1) Benzozat d. Alstol. Sm. 254° (B. 37, 4111 C. 1904 [2] 1656).
- $C_{31}H_{46}O_2$ C 82,7 — H 10,2 — O 7,1 — M. G. 450.
 1) Verbindung (aus Asclepias syriaca L.). Sm. 135—136° (J. pr. [2] 68, 400 C. 1904 [1] 105).
- $C_{31}H_{50}O_5$ C 74,1 — H 10,0 — O 15,9 — M. G. 502.
 1) Gratiogenin. Sm. 198° (Ar. 240, 566 C. 1903 [1] 42).
- $C_{31}H_{52}O_6$ C 71,5 — H 10,0 — O 18,5 — M. G. 520.
 1) 1-Dimethylester d. β -Diketo- δ -Äthylheptan- γ -Dicarbonsäure. Sm. 201—207° (Soc. 85, 52 C. 1904 [1] 360, 788).
- 31 III —
- $C_{31}H_{23}ON$ C 87,5 — H 5,4 — O 3,7 — N 3,3 — M. G. 425.
 1) Verbindung (aus Benzylidenacetophenon). Sm. 249° (B. 28, 962; Soc. 85, 1359 C. 1904 [2] 1646).
- $C_{31}H_{23}O_2N$ C 84,4 — H 5,2 — O 7,2 — N 3,2 — M. G. 441.
 1) 2-Benzoyl-1,3-Diphenyl-1,3-Dihydro-4,2- β -Naphtisoxazin. Sm. 224 bis 225° (G. 33 [1] 20 C. 1903 [1] 926).
- $C_{31}H_{24}O_2N_4$ *1) Monobenzyläther d. 4,4'-Di[4-Oxyphenylazo]biphenyl (B. 36, 2975 C. 1903 [2] 1031).
- $C_{31}H_{25}O_4N$ C 78,3 — H 5,3 — O 13,5 — N 2,9 — M. G. 475.
 1) Dibenzoat d. Apomorphin. Sm. 156—158° (B. 35, 4383 C. 1903 [1] 338).
- $C_{31}H_{25}O_7N$ C 71,1 — H 4,8 — O 21,4 — N 2,7 — M. G. 523.
 1) Äthylester d. 6-Benzoylamido-3,5-Dibenzoxyl-1-Methylbenzol-2-Carbonsäure. Sm. 222,5° (B. 37, 1420 C. 1904 [1] 1417).
- $C_{31}H_{26}ON_2$ 2) Nitrosoderivat d. Verb. $C_{31}H_{27}N$. Sm. 210—215° u. Zers. + $C_2H_4O_2$ (B. 36, 1502 C. 1903 [1] 1351).
- $C_{31}H_{26}O_2N_2$ C 81,2 — H 5,7 — O 7,0 — N 6,1 — M. G. 458.
 1) γ -Keto- $\alpha\beta\gamma$ -Triphenyl- α -[5-Keto-3-Methyl-1-Phenyl-4,5-Dihydro-4-Pyrazolyl]propan. Sm. 201° (B. 36, 2128 C. 1903 [2] 365).
- $C_{31}H_{26}O_6N_4$ C 62,2 — H 4,3 — O 24,1 — N 9,4 — M. G. 598.
 1) β -Keto- $\alpha\alpha\gamma\gamma$ -Tetra[4-Nitrobenzyl]propan. Sm. 194—195° (B. 37, 1996 C. 1904 [2] 27).
- $C_{31}H_{26}O_{14}Cl_4$ 2) Pentaacetat d. Tetrachlorbarbaloin. Sm. 166,4° (C. 1903 [1] 235; Bl. [3] 21, 674). — *III, 453.
- $C_{31}H_{27}ON$ C 86,7 — H 6,3 — O 3,7 — N 3,3 — M. G. 429.
 1) 4-Diäthylamidophenyldinaphtopyran. Sm. 230—231° (C. r. 138, 577 C. 1904 [1] 957).

- $C_{31}H_{27}O_6N_3$ C 69,3 — H 5,0 — O 17,9 — N 7,8 — M. G. 537.
 1) Di[Phenylamidoformiat] d. Benzoylpepinaphrin. H_2SO_4 (B. 36, 1846 C. 1903 [2] 303). — *III, 667.
- $C_{31}H_{27}NBr_2$ 1) Verbindung (aus der Verb. $C_{31}H_{27}N$). Sm. oberh. 300° (B. 36, 1501 C. 1903 [1] 1351).
- $C_{31}H_{28}O_3N_2$ C 78,1 — H 5,9 — O 10,1 — N 5,9 — M. G. 476.
 1) Verbindung (aus Desoxybenzoïn u. 5-Keto-3-Methyl-4-Benzyliden-1-Phenyl-4,5-Dihydropyrazol). Sm. 195° (B. 36, 2128 C. 1903 [2] 365).
- $C_{31}H_{30}O_2N_4$ C 75,9 — H 6,1 — O 6,5 — N 11,4 — M. G. 490.
 1) 3-Nitro-4-Dimethylamidophenylidi [4-Methylamido-1-Naphtyl]-methan (B. 37, 1911 C. 1904 [2] 115).
- $C_{31}H_{30}O_4N_2$ 2) Di[Benzoyl-4-Aethoxyphenylamidomethan]. Sm. 83—84° (B. 37, 3117 C. 1904 [2] 1316).
- $C_{31}H_{30}O_5S_2$ 2) α -Keto- γ -Dibenzylsulfon- $\alpha\epsilon$ -Diphenylpentan (B. 37, 510 C. 1904 [1] 884).
- $C_{31}H_{30}N_3Cl$ 1) Chlorid d. α -Oxy- α -[4-Dimethylamidophenyl]- $\alpha\alpha$ -Di[4-Methylamido-1-Naphtyl]methan (B. 37, 1913 C. 1904 [2] 116).
- $C_{31}H_{31}ON_3$ C 80,7 — H 6,7 — O 3,5 — N 9,1 — M. G. 461.
 1) Hydroxylaminderivat d. Base $C_{31}H_{32}O_2N_2$. Sm. 245° (C. r. 137, 608 C. 1903 [2] 1180).
- $C_{31}H_{31}O_2N_3$ C 78,0 — H 6,5 — O 6,7 — N 8,8 — M. G. 477.
 1) Verbindung (aus d. Verbind. $C_{31}H_{33}O_3N_2$). Sm. 203° (C. r. 138, 212 C. 1904 [1] 663).
- $C_{31}H_{33}ON_2$ C 78,2 — H 6,7 — O 3,4 — N 11,7 — M. G. 476.
 1) Acetylderivat d. Phenylimido- α -Phenylamidobenzylidencampher. Sm. 166° (Soc. 83, 106 C. 1903 [1] 233, 458).
- $C_{31}H_{32}O_2N_2$ C 80,2 — H 6,9 — O 6,9 — N 6,0 — M. G. 464.
 1) 2-Dimethylamido-9,10-Dioxy-9-[4-Methylphenyl]-10-[4-Dimethylamidophenyl]-9,10-Dihydroanthracen. Sm. 163—164° (C. r. 137, 608 C. 1903 [2] 1180).
- $C_{31}H_{32}O_3N_2$ C 77,5 — H 6,7 — O 10,0 — N 5,8 — M. G. 480.
 1) 9¹-Methyläther d. 9,10-Dioxy-2-Dimethylamido-9-[4-Oxyphenyl]-10-[4-Dimethylamidophenyl]-9,10-Dihydroanthracen. Sm. 176° (C. r. 138, 212 C. 1904 [1] 663).
- $C_{31}H_{34}O_2N_4$ C 75,3 — H 6,9 — O 6,5 — N 11,3 — M. G. 494.
 1) Di[4-Dimethylamidophenyl]-3,4-Di[Acetylamido]-1-Naphtylmethan. Sm. 258—259° (C. 1903 [1] 88; B. 37, 1910 C. 1904 [2] 115).
- $C_{31}H_{34}O_8N_2$ C 66,2 — H 6,0 — O 22,8 — N 5,0 — M. G. 562.
 1) Tetraacetat d. 4',4''-Di[Dimethylamido]-3,4,2',2''-Tetraoxytriphenylmethan. Sm. 165—167° (B. 36, 2919 C. 1903 [2] 1065).
- $C_{31}H_{34}N_3Cl$ 1) α -[2-Chlor-4-Dimethylamidophenyl]- $\alpha\alpha$ -Di[2-Methyl-1-Aethyl-3-Indolyl]methan. Sm. 219° (B. 37, 323 C. 1904 [1] 668).
- $C_{31}H_{37}O_7N$ C 69,5 — H 6,9 — O 20,9 — N 2,6 — M. G. 535.
 1) Aspidinanilid. Sm. 132° (A. 329, 330 C. 1904 [1] 800).
- $C_{31}H_{47}O_{10}N$ C 63,9 — H 6,3 — O 27,4 — N 2,4 — M. G. 583.
 1) Diacetylcevin. Sm. 190° (B. 37, 1952 C. 1904 [2] 126).
- $C_{31}H_{51}O_4Cl$ 1) Diäthylester d. Säure $C_{27}H_{45}O_4Cl$. Sm. 142—143° (B. 37, 3705 C. 1904 [2] 1699).

— 31 IV —

- $C_{31}H_{43}O_3NBr_2$ 1) 2-Acetat d. N-Palmitylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 64—65° (A. 332, 203 C. 1904 [2] 211).

C₃₂-Gruppe.

- $C_{32}H_{24}$ 5) 1,4-Di[Diphenylmethylen]-1,4-Dihydrobenzol. Sm. 239—242° (B. 37, 1469 C. 1904 [1] 1342).
 6) 9,9,10-Triphenyl-9,10-Dihydroanthracen. Sm. 220° (C. r. 139, 11 C. 1904 [2] 530).
- $C_{32}H_{26}$ 3) 1,4-Di[Diphenylmethyl]benzol. Sm. 172° (B. 37, 2006 C. 1904 [2] 225).

— 32 II —

- $C_{82}H_{20}O_4$ C 82,0 — H 4,3 — O 13,7 — M. G. 468.
- 1) Dibenzozat d. 1,2-Dioxychrysen. Sm. 241—242° (D.R.P. 151981 C. 1904 [2] 167).
- $C_{32}H_{20}O_8$ *1) Tribenzozat d. Purpurogallin. Sm. 212—213° (Soc. 83, 195 C. 1903 [1] 639).
- $C_{32}H_{24}O$ 4) 10-Oxy-9,9,10-Triphenyl-9,10-Dihydroanthracen. Sm. 200°.
+ $(C_6H_5)_2O$ (C. r. 139, 10 C. 1904 [2] 530).
- $C_{32}H_{24}O_4$ 5) α -Dehydroisodypnopinakolin. Sm. 174,5° (C. 1904 [1] 1258).
- 4) Bisanhydrooxydiphenacyl. Sm. 279° (B. 36, 2422 C. 1903 [2] 502).
- 5) Isobisanhydrooxydiphenacyl. Sm. 279° (B. 36, 2424 C. 1903 [2] 502).
- $C_{32}H_{24}Cl_2$ 1) 1,4-Di[α -Chlordiphenylmethyl]benzol. Sm. 247° (B. 37, 2003 C. 1904 [2] 225).
- $C_{32}H_{24}Br_2$ 1) 1,4-Di[α -Bromdiphenylmethyl]benzol. Sm. 270—272° (B. 37, 1469 C. 1904 [1] 1342).
- $C_{32}H_{26}O$ *4) α -Isodypnopinakolin. Sm. 134,5° (C. 1903 [1] 880; 1904 [1] 1258).
- *9) α -Homodypnopinakolin. Sm. 162° (C. 1903 [1] 880).
- $C_{32}H_{26}O_2$ 3) 1,4-Di[α -Oxydiphenylmethyl]benzol. Sm. 169° (B. 37, 2003 C. 1904 [2] 225).
- $C_{32}H_{26}O_4$ 3) Dibenzozat d. o-Dioxyreten. Sm. 231—232° (D.R.P. 151981 C. 1904 [2] 167).
- $C_{32}H_{28}N_2$ 4) 1,3-Di[Diphenylamidomethyl]benzol. Sm. 116° (B. 36, 1676 C. 1903 [2] 29).
- $C_{32}H_{30}O_{10}$ C 66,9 — H 5,2 — O 27,9 — M. G. 574.
- 1) Diacetat d. Tetraguajakhydrochinon. Sm. 155—160° (C. r. 137, 1272 C. 1904 [1] 445).
- $C_{32}H_{32}O_2$ C 85,7 — H 7,1 — O 7,1 — M. G. 448.
- 1) Acetat d. 5-Oxy-3-Phenyl-1,2-Di[4-Isopropylphenyl]benzol. Sm. 122° (Am. 31, 151 C. 1904 [1] 807).
- $C_{32}H_{32}O_{11}$ C 64,9 — H 5,4 — O 29,7 — M. G. 592.
- 1) Triacetat d. Verbindung $C_{36}H_{26}O_8$. Sm. 110° (R. 22, 142 C. 1903 [2] 124).
- $C_{32}H_{32}O_{12}$ 2) Tararin. Sm. 204—205° u. Zers. (C. 1903 [1] 883; C. r. 136, 386 C. 1903 [1] 722).
- $C_{32}H_{32}N_6$ C 76,8 — H 6,4 — N 16,8 — M. G. 500.
- 1) 3,3'-Di[Benzylidenamido]-2,2'-Diphenyl-1,1'-Bitetrahydroimidazol. Sm. 138° (J. pr. [2] 67, 144 C. 1903 [1] 865).
- $C_{32}H_{34}O_8$ C 70,3 — H 6,2 — O 23,4 — M. G. 546.
- 1) Benzozat d. Verb. $C_{25}H_{30}O_7$. Sm. 140—142° (A. 329, 334 C. 1904 [1] 800).
- $C_{32}H_{36}O_6$ C 74,4 — H 7,0 — O 18,6 — M. G. 516.
- 2) Dibenzoylembeliasäure. Sm. 97—98° (Ar. 238, 21). — *II, 1235.
- $C_{32}H_{40}O_8$ C 69,5 — H 7,2 — O 23,2 — M. G. 552.
- 1) Dilakton d. Acetylphotosantoninsäure. Sm. 199—201° (G. 33 [2] 68 C. 1903 [2] 1182).
- $C_{32}H_{42}O_2$ C 83,8 — H 9,2 — O 7,0 — M. G. 458.
- 1) Verbindung (aus Campher). Sm. 176° (B. 36, 2627 C. 1903 [2] 626).
- $C_{32}H_{42}O_6$ C 73,6 — H 8,0 — O 18,4 — M. G. 522.
- 1) $\alpha\beta$ -Dibenzozat- γ -Myristat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 65° (B. 36, 4343 C. 1904 [1] 434).
- $C_{32}H_{48}O_4$ C 77,4 — H 9,7 — O 12,9 — M. G. 496.
- 1) α -Masticonsäure. Sm. 96—96,5° (Ar. 242, 108 C. 1904 [1] 1010).
- 2) β -Masticonsäure. Sm. 91—92° (Ar. 242, 109 C. 1904 [1] 1010).
- $C_{32}H_{52}O_2$ *3) Acetat d. β -Amyrin. Sm. 239—240° (J. pr. [2] 68, 449 C. 1904 [1] 191).
- 5) Verbindung (aus Asclepias syriaca L.). Sm. 215—216° (J. pr. [2] 68, 455 C. 1904 [1] 191).
- $C_{32}H_{52}O_{10}$ C 64,4 — H 8,7 — O 26,8 — M. G. 596.
- 1) Digitophyllin. Sm. 230—232° u. Zers. (Ar. 235, 426). — *III, 439.
- $C_{32}H_{54}O_6$ C 71,9 — H 10,1 — O 18,0 — M. G. 534.
- 1) 1-Dimenthylester d. $\beta\zeta$ -Diketo- δ -Propylheptan- $\gamma\epsilon$ -Dicarbonsäure. Sm. 184° (Soc. 85, 53 C. 1904 [1] 360, 788).

$C_{32}H_{54}O_6$ 2) 1-Dimethylester d. β -Diketo- δ -Isopropylheptan- γ -Dicarbon-säure. Sm. 192–193° (202°) (Soc. 85, 54 C. 1904 [1] 360, 788).

— 32 III —

- $C_{32}H_{16}O_4N_4$ C 73,8 — H 3,1 — O 12,3 — N 10,8 — M. G. 520.
- $C_{32}H_{20}O_2N_4$ 1) Diindigotin (C. 1903 [1] 35).
C 78,0 — H 4,1 — O 6,5 — N 11,4 — M. G. 492.
- 1) 4,4'-(4,4'-Biphenylenazo)-3,3'-Dioxy-2,2'-Binaphtyl (C. r. 138, 1619 C. 1904 [2] 338).
- $C_{32}H_{20}O_3S_3$ 1) Dibenzoatd. 3,5-Dimerkapto-4-Thiocarbonyl-1-Keto-2,6-Diphenyl-1,4-Dihydrobenzol. Sm. 142° (B. 37, 1607 C. 1904 [1] 1444).
C 65,7 — H 3,4 — O 16,4 — N 14,4 — M. G. 584.
- $C_{32}H_{20}O_6N_6$ 1) 4,4'-Di[4-Nitrophenylazo]-3,3'-Dioxy-2,2'-Binaphtyl (C. r. 138, 1619 C. 1904 [2] 338).
C 77,1 — H 4,4 — O 12,8 — N 5,6 — M. G. 498.
- $C_{32}H_{22}O_4N_2$ 1) s-Diphenyloxryhodamin (D.R.P. 45263). — *III, 578.
- $C_{32}H_{23}O_2N_3$ C 79,8 — H 4,8 — O 6,6 — N 8,7 — M. G. 481.
- 1) 1,2,4-Tri[Phenylamido]-9,10-Anthrachinon (D.R.P. 151511 C. 1904 [1] 1507).
C 79,2 — H 4,7 — O 13,2 — N 2,9 — M. G. 485.
- $C_{32}H_{23}O_4N$ 1) 4-Benzyl-1-Naphtylester d. β -[4-Nitrophenyl]- α -Phenylakrylsäure. Sm. 155–156° (G. 33 [2] 475 C. 1904 [1] 655).
2) 1-Benzyl-2-Naphtylester d. β -[4-Nitrophenyl]- α -Phenylakrylsäure. Sm. 145° (G. 33 [2] 492 C. 1904 [1] 656).
- $C_{32}H_{24}OS_3$ 1) Dibenzylläther d. 3,5-Dimerkapto-4-Thiocarbonyl-1-Keto-2,6-Diphenyl-1,4-Dihydrobenzol. Sm. 131° (B. 37, 1607 C. 1904 [1] 1444).
C 67,9 — H 4,6 — O 22,6 — N 4,9 — M. G. 566.
- $C_{32}H_{26}O_8N_2$ 1) Dimethyläther d. Bisnitroso-4-Oxybenzoylmethan. Sm. 115–116° u. Zers. (B. 37, 1534 C. 1904 [1] 1609).
C 84,2 — H 6,1 — O 3,5 — N 6,1 — M. G. 456.
- $C_{32}H_{26}ON_2$ 1) Äthyläther d. 4,4'-Di[Cinnamylidenamido]-3-Oxybiphenyl. Sm. 167–168° (B. 36, 4073 C. 1904 [1] 267).
C 64,1 — H 4,8 — O 24,0 — N 7,1 — M. G. 599.
- $C_{32}H_{26}O_9N_3$ 1) Skimmianin. Sm. 175,5° (C. 1904 [2] 1511).
C 68,3 — H 5,3 — O 10,8 — N 14,9 — M. G. 562.
- $C_{32}H_{30}O_4N_6$ 1) 2,4-Dinitro-1,3,5-Tri[Phenylamido]benzol + Dimethylamido-benzol. Sm. 120° (B. 37, 179 C. 1904 [1] 653).
C 78,2 — H 6,7 — O 6,5 — N 8,6 — M. G. 491.
- $C_{32}H_{33}O_2N_3$ 1) Verbindung (aus d. Verb. $C_{32}H_{34}O_3N_2$). Sm. 208° (C. r. 138, 213 C. 1904 [1] 663).
C 78,4 — H 6,9 — O 3,3 — N 11,4 — M. G. 490.
- $C_{32}H_{34}ON_4$ 1) Hydroxylaminderivat d. Phtalgrün. Sm. 239–240° (C. 1903 [1] 86; C. r. 137, 609 C. 1903 [2] 1181).
C 77,7 — H 6,9 — O 9,7 — N 5,7 — M. G. 494.
- $C_{32}H_{34}O_5N_2$ 1) 9'-Äthyläther d. 9,10-Dioxy-2-Dimethylamido-9-[4-Oxyphenyl]-10-[4-Dimethylamidophenyl]-9,10-Dihydroanthracen. Sm. 175° (C. r. 138, 213 C. 1904 [1] 663).
- $C_{32}H_{34}O_5N_4$ 2) Bilipurpurin. Sm. noch nicht bei 330° (M. 24, 337 C. 1903 [2] 582).
- $C_{32}H_{34}O_6S_3$ 1) $\alpha\alpha\delta$ -Tribenzylsulfon- α -Phenylpentan. Sm. 225° (B. 37, 508 C. 1904 [1] 883).
- $C_{32}H_{35}ON_3$ * 1) 2-Dimethylamido-9-Oxy-9,10-Di[4-Dimethylamidophenyl]-9,10-Dihydroanthracen (Leukophtalgrün) (C. r. 137, 609 C. 1903 [2] 1181).
- $C_{32}H_{35}O_2N_3$ * 1) 2-Dimethylamido-9,10-Dioxy-9,10-Di[4-Dimethylamidophenyl]-9,10-Dihydroanthracen (Phtalgrün). Sm. 152°. Chlorid (C. 1903 [1] 85; C. r. 137, 609 C. 1903 [2] 1181).
C 70,8 — H 7,0 — O 11,8 — N 10,3 — M. G. 542.
- $C_{32}H_{33}O_4N_4$ 1) Laktone d. α -Oxy-2,2'-Di[Acetylamido]-4,4'-Di[Diäthylamido]-triphenylmethan-2''-Carbonsäure. Sm. 248° (D.R.P. 49850). — *II, 1020.
- $C_{32}H_{39}N_4P$ 1) Tri[2,4-Dimethylphenylamido]phosphin-2,4-Dimethylphenylimid. HCl, (2HCl, $PtCl_4$) (C. r. 138, 816 C. 1904 [1] 1204).
- $C_{32}H_{40}O_7N_4$ * 1) Urobilin (C. 1903 [1] 1150).

- $C_{32}H_{56}O_{16}N_8$ C 47,5 — H 6,9 — O 31,7 — N 13,8 — M. G. 808.
 1) Pepton (*H.* 42, 259 *C.* 1904 [2] 959).
 $C_{32}H_{62}ON_2$ *1) 2,5-Dipentadekyl-1,3,4-Oxdiazol. Sm. 72°; Sd. 215°₁₅ (*J. pr.* [2] 69, 506 *C.* 1904 [2] 601).
 $C_{32}H_{62}N_2S$ *1) 2,5-Dipentadekyl-1,3,4-Thiodiazol. Sm. 60° (*J. pr.* [2] 69, 507 *C.* 1904 [2] 601).
 $C_{32}H_{72}O_8N_{16}$ C 47,5 — H 8,9 — O 15,8 — N 27,7 — M. G. 808.
 1) Seombrin. 2(2HCl, PtCl₄) (*H.* 37, 103 *C.* 1903 [1] 236).

— 32 IV —

- $C_{32}H_{20}O_{14}N_4S_4$ 1) Diazoverbindung (aus 4,4'-Diamidobiphenyl-2,2'-Disulfonsäure u. 1-Oxynaphtalin-4-Sulfonsäure). Ba₂ (*J. pr.* [2] 66, 574 *C.* 1903 [1] 520).
 $C_{32}H_{22}O_8N_4S_4$ 1) 5,5'-Di[4-Sulfo-1-Naphtylazo]-2,2'-Dioxydiphenyldisulfid (*C.* 1904 [2] 1175).
 $C_{32}H_{22}O_{20}N_4S_6$ 1) Disazoverbindung (aus 4,4'-Diamidobiphenyl-2,2'-Disulfonsäure u. 2-Oxynaphtalin-3,6-Disulfonsäure). Ba₃ (*J. pr.* [2] 66, 574 *C.* 1903 [1] 520).
 $C_{32}H_{24}O_{12}N_6S_4$ 1) Disazoverbindung (aus 4,4'-Diamidobiphenyl-2,2'-Disulfonsäure u. 1-Amidonaphtalin-4-Sulfonsäure). Na₄ (*J. pr.* [2] 66, 573 *C.* 1903 [1] 520).
 $C_{32}H_{28}O_4NJ$ 1) Jodmethylat d. Apomorphindibenzoat. Sm. 229—230° (*B.* 35, 4384 *C.* 1903 [1] 338).
 $C_{32}H_{31}O_9NCl_2$ 1) Verbindung (aus α -Chlor- γ -Keto- $\alpha\beta$ -Diphenylbutan). Sm. 130° (*M.* 20, 739). — *III, 174.
 $C_{32}H_{43}O_2N_4P$ 1) Verbindung (aus 2-Amido-1-Methylbenzol). Sm. 114° (*C. r.* 139, 411 *C.* 1904 [2] 764).

 C_{33} -Gruppe.

- $C_{33}H_{24}O_5$ C 79,2 — H 4,8 — O 16,0 — M. G. 500.
 1) Dibenzoat d. 2-Keto-1,3-Di[2-Oxybenzyliden]-R-Pentamethylen. Sm. 179° (*B.* 36, 1503 *C.* 1903 [1] 1352).
 2) Dibenzoat d. 2-Keto-1,3-Di[4-Oxybenzyliden]-R-Pentamethylen. Sm. 229° (*B.* 36, 1503 *C.* 1903 [1] 1352).
 $C_{33}H_{26}O$ C 90,4 — H 5,9 — O 3,7 — M. G. 438.
 1) Methyläther d. 10-Oxy-9,9,10-Triphenyl-9,10-Dihydroanthracen. Sm. 218° (*C. r.* 139, 11 *C.* 1904 [2] 530).
 $C_{33}H_{27}N_3$ 1) 9-[4-Dimethylamidoazobenzol]-9-Phenylfluoren. Sm. 192° (*B.* 37, 76 *C.* 1904 [1] 519).
 $C_{33}H_{28}O$ C 90,0 — H 6,4 — O 3,6 — M. G. 440.
 1) Methyläther d. 2-Diphenylmethyl-1-[α -Oxydiphenylmethyl]benzol. Sm. 215° (*C. r.* 139, 12 *C.* 1904 [2] 530).
 $C_{33}H_{28}O_3$ 2) Dibenzoat d. Pinoresinol. Sm. 160° (*M.* 15, 513). — II, 563; *III, 426.
 $C_{33}H_{29}N_3$ C 84,8 — H 6,2 — N 9,0 — M. G. 467.
 1) 4-[4-Dimethylamidophenyl]azotetraphenylmethan. Sm. 258° (*B.* 36, 408 *C.* 1903 [1] 586).
 $C_{33}H_{30}O_5$ 2) Diacetat d. $\alpha\epsilon$ -Dioxy- γ -Keto- $\alpha\beta\delta\epsilon$ -Tetraphenylpentan. Sm. 180 bis 181° (*M.* 24, 721 *C.* 1904 [1] 167).
 $C_{33}H_{32}O_4$ 2) Dibenzoat d. $\alpha\alpha$ -Di[4-Oxyphenyl]heptan. Sm. 106° (*C.* 1904 [1] 1650).
 $C_{33}H_{33}N_3$ 2) Di[4-Dimethylamidophenyl]-4-Phenylamido-1-Naphtylmethan. Sm. 167—168° (*B.* 37, 1909 *C.* 1904 [2] 115).
 $C_{33}H_{33}N_5$ *3) Benzolazo- α -Naphtylleukauramin G. Sm. 193—194° (*C.* 1903 [1] 399).
 $C_{33}H_{35}N_3$ *1) 4-Dimethylamidophenyldi[4-Dimethylamido-1-Naphtyl]methan. Sm. 178—179° (*C.* 1903 [1] 88).
 2) 4-Dimethylamidophenyldi[4-Aethylamido-1-Naphtyl]methan. Sm. 220° (*C.* 1903 [1] 88; *B.* 37, 1911 *C.* 1904 [2] 115).
 $C_{33}H_{39}N_3$ 2) trimolec. 6-Methylenamido-1,2,3,4-Tetrahydronaphtalin. Sm. 121° (*Soe.* 85, 733 *C.* 1904 [2] 116, 339).

- $C_{33}H_{40}O_{19}$ C 53,5 — H 5,4 — O 41,1 — M. G. 740.
 1) Robinin + $\frac{1}{2}(7\frac{1}{2})H_2O$. Sm. 195° (C. 1904 [1] 1609; *Ar.* 242, 220 C. 1904 [1] 1651).
- $C_{33}H_{46}O_2$ *1) Benzoat d. Lupeol. Sm. 265—266° (262°) (*H.* 41, 474 C. 1904 [1] 1652; *B.* 37, 3442 C. 1904 [2] 1307; *B.* 37, 4107 C. 1904 [2] 1655).
- $C_{33}H_{48}O_2$ 5) Benzoat d. Phytosterin. Sm. 145—145,5° (C. 1903 [2] 125).
 6) Verbindung (aus *Asclepias syriaca* L.). Sm. 163—164° (*J. pr.* [2] 68, 408 C. 1904 [1] 105).
- $C_{33}H_{50}N_2$ C 83,6 — H 10,5 — N 5,9 — M. G. 474.
 1) Phenylhydrazon d. Cholestenon. Sm. 142—152° (*B.* 37, 3100 C. 1904 [2] 1535).
- $C_{33}H_{60}O_3$ 2) trim. Aldehyd d. Dekan- α -Carbonsäure. Sm. 46—47°; Sd. 125°₁₈ (*Bl.* [3] 29, 1203 C. 1904 [1] 355).

— 33 III —

- $C_{33}H_{10}O_4N_3$ C 76,0 — H 3,6 — O 12,3 — N 8,1 — M. G. 521.
 1) Dibenzoat d. α -Diphenylpyridindiketondioxim. Sm. 250° u. Zers. (*G.* 33 [2] 160 C. 1903 [2] 1273).
- $C_{33}H_{16}O_5N_3$ C 73,7 — H 3,5 — O 14,9 — N 7,8 — M. G. 537.
 1) Dibenzoat d. Methenylbisdandiontrioximanhydrid. Sm. 280° u. Zers. (*G.* 33 [2] 159 C. 1903 [2] 1273).
- $C_{33}H_{25}O_6N_7$ C 59,9 — H 3,5 — O 21,8 — N 14,8 — M. G. 661.
 1) 2,4,4'-Tri[4-Nitrobenzoylamido]diphenylamin + H_2O . Sm. 180 bis 190° (303—304° wasserfrei) (*B.* 37, 1071 C. 1904 [1] 1273).
- $C_{33}H_{27}O_3N$ C 81,7 — H 5,5 — O 9,9 — N 2,9 — M. G. 485.
 1) Tri[2-Oxy-1-Naphtylmethyl]amin. Sm. 164°. HCl, Acetat (*G.* 34 [1] 214 C. 1904 [1] 1522).
- $C_{33}H_{27}O_5N$ C 76,6 — H 5,2 — O 15,5 — N 2,7 — M. G. 517.
 1) Dibenzoat d. Acetyl pomorphin. Sm. 156—158° (*B.* 35, 4385 C. 1903 [1] 335).
- $C_{33}H_{28}ON_2$ C 84,6 — H 6,0 — O 3,4 — N 6,0 — M. G. 468.
 1) α -Benzoyl- α - β -Di[Diphenylmethyl]hydrazin. Sm. 155° (*J. pr.* [2] 67, 189 C. 1903 [1] 875).
- $C_{33}H_{29}O_5N$ C 76,3 — H 5,6 — O 15,4 — N 2,7 — M. G. 519.
 1) Methyläther d. Dibenzoylthebenin. Sm. 159° (*B.* 37, 2787 C. 1904 [2] 716).
- $C_{33}H_{30}O_6N_4$ C 63,3 — H 4,8 — O 23,0 — N 8,9 — M. G. 626.
 1) Tetra[Phenylamidoformiat] d. l-Arabinose. Sm. 250—255° u. Zers. (*C. r.* 138, 634 C. 1904 [1] 1068).
 2) Tetra[Phenylamidoformiat] d. l-Xylose. Sm. 265—270° (*C. r.* 138, 634 C. 1904 [1] 1068).
- $C_{33}H_{31}O_7N$ C 71,6 — H 5,6 — O 20,2 — N 2,5 — M. G. 553.
 1) Dibenzoyllaurotetanin. Sm. 194° (*Ar.* 236, 619). — *III, 661.
- $C_{33}H_{32}N_3Cl$ *1) Chlorid d. α -Oxy- α -Di[4-Dimethylamidophenyl]- α -[4-Phenylamido-1-Naphtyl]methan (Victoriablau B) (D. R. P. 27789, 29962; *B.* 37, 1913 C. 1904 [2] 115).
- $C_{33}H_{34}O_2N_4$ C 76,5 — H 6,5 — O 6,2 — N 10,8 — M. G. 518.
 1) 3-Nitro-4-Dimethylamidophenyl di[4-Aethylamido-1-Naphtyl]-methan. Sm. 200° (C. 1903 [1] 88; *B.* 37, 1911 C. 1904 [2] 115).
- $C_{33}H_{34}O_5S_2$ 1) γ -Keto- α - ϵ -Dibenzylsulfon- α - ϵ -Diphenyl- β - δ -Dimethylpentan. Sm. 209—210° (*B.* 37, 509 C. 1904 [1] 884).
- $C_{33}H_{34}O_8N_3$ C 59,1 — H 5,1 — O 19,1 — N 16,7 — M. G. 670.
 1) Hydrazid dianilid d. Hippurylasparagylasparaginsäure. Zers. bei 147° (*J. pr.* [2] 70, 191 C. 1904 [2] 1397).
- $C_{33}H_{34}N_3Cl$ 1) Chlorid d. α -Oxy- α -[4-Dimethylamidophenyl]- α -Di[4-Aethylamido-1-Naphtyl]methan (*B.* 37, 1914 C. 1904 [2] 116).
- $C_{33}H_{35}O_{14}N$ C 59,2 — H 5,2 — O 33,5 — N 2,1 — M. G. 669.
 1) Tetraacetat d. 4-Nitrobenzylidendivanillin dimethyläther. Sm. 186—188° (*B.* 36, 3976 C. 1904 [1] 373).
- $C_{33}H_{49}O_2N$ C 80,7 — H 10,0 — O 6,5 — N 2,8 — M. G. 491.
 1) Phenylamidoformiat d. Cholesterin. Sm. 168—169° (*Bl.* [3] 31, 71 C. 1904 [1] 578).

- $C_{33}H_{49}O_2N_3$ C 76,3 — H 9,4 — O 6,2 — N 8,1 — M. G. 519.
 1) 4-Nitrophenylhydrazon d. Cholestenon. Sm. 160—195° (B. 37, 3100 C. 1904 [2] 1535).
 $C_{33}H_{49}O_3N_3$ C 74,0 — H 9,2 — O 9,0 — N 7,8 — M. G. 535.
 1) 4-Nitrophenylhydrazon d. Cholestanonol. Sm. 195° (194°). + C_2H_6O (M. 24, 655 C. 1903 [2] 1236; B. 36, 3755 C. 1903 [2] 1417).

— 33 IV —

- $C_{33}H_{26}O_8N_4S_2$ *1) Monobenzyläther d. Stilbendisulfonsäurediazophenol (B. 36, 2977 C. 1903 [2] 1031).

— 33 V —

- $C_{33}H_{27}ON_6S_3P$ 1) Phosphoryltri[1-Naphtylthioharnstoff] (Soc. 85, 367 C. 1904 [1] 1407).

C₃₄-Gruppe.

- $C_{34}H_{20}$ C 95,3 — H 4,7 — M. G. 428.
 1) Dinaphtylendiphenyläthen. Sm. 180—190° (A. 335, 136 C. 1904 [2] 1134).
 $C_{34}H_{54}$ C 88,3 — H 11,7 — M. G. 462.
 1) Kohlenwasserstoff (aus Guttapercha) (C. 1903 [1] 83).

— 34 II —

- $C_{34}H_{22}O_8$ C 73,1 — H 3,9 — O 22,9 — M. G. 558.
 1) Tetrabenzoat d. 1,2,3,4-Tetraoxybenzol (B. 37, 120 C. 1904 [1] 586).
 $C_{34}H_{27}N$ C 90,9 — H 6,0 — N 3,1 — M. G. 449.
 1) Anilinderivat d. 9,10-Dibenzylidenanthracen. Sm. 233° (M. 25, 801 C. 1904 [2] 1137).
 $C_{34}H_{28}O$ C 90,3 — H 6,2 — O 3,5 — M. G. 452.
 1) Äthyläther d. 10-Oxy-9,9,10-Triphenyl-9,10-Dihydroanthracen. Sm. 250° (C. r. 139, 11 C. 1904 [2] 530).
 $C_{34}H_{30}O_2$ 2) Dimethyläther d. 1,4-Di[α -Oxydiphenylmethyl]benzol. Sm. 181 bis 182,5° (B. 37, 1468 C. 1904 [1] 1342).
 $C_{34}H_{34}O_2$ C 86,1 — H 7,2 — O 6,7 — M. G. 474.
 1) γ -Diketo- α - ζ -Tetraphenyldekan. Sm. 171—172° (A. 330, 234 C. 1904 [1] 945).
 $C_{34}H_{35}N_3$ 2) Di[4-Dimethylamidophenyl]-4-[4-Methylphenyl]amido-1-Naphtylmethan. Sm. 193—194° (C. 1903 [1] 88; B. 37, 1909 C. 1904 [2] 115).
 3) Verbindung (aus Dibenzylidenacetone). Sm. 158° u. Zers. (Soc. 85, 1180 C. 1904 [2] 1216).
 $C_{34}H_{38}O_4$ 2) Verbindung (aus α -Oxybenzylidencampher). Sm. 221° (Soc. 83, 102 C. 1903 [1] 234, 459).
 $C_{34}H_{38}O_{19}$ C 54,4 — H 5,1 — O 40,5 — M. G. 750.
 1) Coccavin + 4H₂O. Sm. 163—164° (J. pr. [2] 66, 413 C. 1903 [1] 528).
 $C_{34}H_{48}O_6$ C 76,4 — H 8,0 — O 15,0 — M. G. 534.
 1) Verbindung (aus d. d-Santonigesäureäthylester) (G. 25 [2] 292). — *II, 977.
 $C_{34}H_{48}O_8$ 2) $\alpha\beta$ -Dibenzoat- γ -Palmitat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 69° (B. 36, 4343 C. 1904 [1] 434).
 $C_{34}H_{48}O_9$ C 80,9 — H 9,5 — O 9,5 — M. G. 504.
 1) Benzoat d. Cholestanonol. Sm. 173° (B. 36, 3755 C. 1903 [2] 1417).
 $C_{34}H_{50}O_2$ 2) Verbindung (aus Asclepias syriaca L.). Sm. 165° (J. pr. [2] 68, 413 C. 1904 [1] 105).
 3) Verbindung (aus Asclepias syriaca L.). Sm. 180—182° (J. pr. [2] 68, 401 C. 1904 [1] 105).
 $C_{34}H_{50}O_9$ C 67,8 — H 8,3 — O 23,9 — M. G. 602.
 1) Diäthylester d. Photosantoninsäure. Sm. 132° (G. 33 [2] 68 C. 1903 [2] 1182).
 $C_{34}H_{54}O_6$ C 75,3 — H 10,0 — O 14,7 — M. G. 542.
 1) Acetat d. Cardol. Fl. (C. 1896 [1] 112). — *III, 462.

- $C_{34}H_{56}O_3$ C 79,7 — H 10,9 — O 9,4 — M. G. 512.
 1) Verbindung (aus *Asclepias syriaca* L.). Sm. 79—83° (*J. pr.* [2] 68, 458 *C. 1904* [1] 191).
 $C_{34}H_{56}O_{21}$ * 1) Ericolin (*C. 1903* [2] 729).
 $C_{34}H_{56}O_{19}$ 1) Herniarin. Sm. 228—231° (*C. 1904* [1] 1215).
 $C_{34}H_{56}O_4$ 2) Dipalmitat d. $\alpha\beta$ -Dioxyäthan. Sm. 72°; Sd. 241° (*B. 36*, 4340 *C. 1904* [1] 433).

— 34 III —

- $C_{34}H_{19}O_4N_3$ C 76,5 — H 2,6 — O 12,0 — N 8,9 — M. G. 533.
 1) 4-Phenylamidoindanthren (*B. 36*, 3438 *C. 1903* [2] 1280).
 $C_{34}H_{20}O_4N_4$ 3) 1,5-Di[2-Oxy-1-Naphtylazo]-9,10-Anthrachinon (*B. 37*, 4187 *C. 1904* [2] 1742).
 4) 1,5-Di[4-Oxy-1-Naphtylazo]-9,10-Anthrachinon (*B. 37*, 4187 *C. 1904* [2] 1742).
 $C_{34}H_{25}O_4N_3$ C 75,7 — H 4,6 — O 11,9 — N 7,8 — M. G. 539.
 1) Di[Diphenylamid] d. Benzoximidomalonsäure. Sm. 175° (*C. 1904* [1] 1555).
 $C_{34}H_{26}O_3N_2$ C 80,0 — H 5,1 — O 9,4 — N 5,5 — M. G. 510.
 1) s-Di[4-Methylphenyl]rhodamin (D.R.P. 47451). — *III, 577.
 $C_{34}H_{26}O_4N_4$ 5) 4,4'-Dimethyläther d. 4,4'-Di[4-Oxyphenyl]-3,3'-Dioxy-2,2'-Bis-naphtyl (*C. r.* 138, 1619 *C. 1904* [2] 338).
 $C_{34}H_{25}O_3N_6$ C 73,9 — H 5,1 — O 5,8 — N 15,2 — M. G. 552.
 1) Verbindung (aus 3-Keto-4-Benzoyl-5-Methyl-2-Phenyl-2,3-Dihydropyrazol). Sm. oberh. 300° (*B. 36*, 529 *C. 1903* [1] 642).
 $C_{34}H_{34}O_4N_4$ 5) 2-Nitrophenylimid d. s-Tetraäthylrhodamin. Sm. 194° (D.R.P. 88675). — *III, 576.
 6) 3-Nitrophenylimid d. s-Tetraäthylrhodamin. Sm. 145° (D.R.P. 88675). — *III, 576.
 7) 4-Nitrophenylimid d. s-Tetraäthylrhodamin. Sm. 200° (D.R.P. 88675). — *III, 576.
 $C_{34}H_{34}N_8Cl$ * 1) Chlorid d. α -Oxy- $\alpha\alpha$ -Di[4-Dimethylamidophenyl]- α -[4-p-Methylphenylamido-1-Naphtyl]methan (Victoriablau 4R) (*B. 37*, 1913 *C. 1904* [2] 116).
 $C_{34}H_{35}O_2N_3$ C 78,9 — H 6,8 — O 6,2 — N 8,1 — M. G. 517.
 1) Phenylimid d. s-Tetraäthylrhodamin. Sm. 220—222° (D.R.P. 80153, 81958). — *III, 576.
 $C_{34}H_{36}ON_2$ C 83,6 — H 7,4 — O 3,3 — N 5,7 — M. G. 488.
 1) 9,9-Di[4-Diäthylamidophenyl]-10-Keto-9,10-Dihydroanthracen. Sm. 218° (*C. r.* 136, 537 *C. 1903* [1] 837).
 $C_{34}H_{36}O_2N_5$ 1) Cusparein. Sm. 54° (*C. 1903* [2] 1011).
 $C_{34}H_{38}O_2N_4$ 2) Dimethyläther d. $\beta\eta$ -Di[Phenylhydrazon]- $\delta\epsilon$ -Di[4-Oxyphenyl]oktan. Sm. 180° (*A.* 330, 237 *C. 1904* [1] 945).
 $C_{34}H_{38}O_4N_4$ C 72,1 — H 6,7 — O 11,3 — N 9,9 — M. G. 566.
 1) Mesoporphyrin. Sm. noch nicht bei 310°. Zn, Cu, 2HCl (*H. 37*, 54 *C. 1903* [1] 44; *B. 35*, 4342 *C. 1903* [1] 294).
 $C_{34}H_{38}O_6N_4$ C 68,2 — H 6,3 — O 16,1 — N 9,4 — M. G. 598.
 1) Hämatoporphyrin. 2HCl (*H. 37*, 59 *C. 1903* [1] 45).
 $C_{34}H_{39}O_7P$ 1) Phosphit d. $\alpha\beta\gamma$ -Trioxypropan- $\alpha\gamma$ -Di[2-Methylphenyläther]. Sm. 118—119° (*Soc. 83*, 1139 *C. 1903* [2] 1059).
 2) Phosphit d. $\alpha\beta\gamma$ -Trioxypropan- $\alpha\gamma$ -Di[4-Methylphenyläther]. Sm. 81—82° (*Soc. 83*, 1140 *C. 1903* [2] 1059).
 $C_{34}H_{42}N_4S$ 2) Sulfid d. α -Merkaptodi[3-Methylamido-4-Methylphenyl]methan? Sm. 214—215° (*C. 1903* [1] 400).
 $C_{34}H_{47}O_{11}N$ * 1) Akonitin. HBr + 2 $\frac{1}{2}$ H₂O (*C. 1904* [2] 1238).
 $C_{34}H_{51}O_{10}N$ C 64,4 — H 8,1 — O 25,3 — N 2,2 — M. G. 633.
 1) Acetylcevadine. Sm. 234°. HCl (*B. 37*, 1950 *C. 1904* [2] 126).
 $C_{34}H_{71}O_9N_{17}$ C 47,4 — H 8,2 — O 16,7 — N 27,6 — M. G. 861.
 1) Sturin. 2(2HCl, PtCl₄) (*H. 37*, 104 *C. 1903* [1] 236).

— 34 IV —

- $C_{34}H_{28}O_{12}N_6S_4$ 1) Disazoverbindung (aus 4,4'-Diamido-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure u. 1-Amidonaphtalin-4-Sulfonsäure). Ba₂ (*J. pr.* [2] 66, 568 *C. 1903* [1] 519).

- $C_{34}H_{30}O_{16}N_4S_4$ 1) 1, 5-Di[2-Oxy-1-Naphtylazo]-9, 10-Anthrachinon-1^a, 1^a, 5^a, 5^a-Tetrasulfonsäure (*B.* 37, 4187 *C.* 1904 [2] 1742).
- $C_{34}H_{32}O_4N_4Fe$ 2) Dehydrohämatin (*H.* 40, 413 *C.* 1904 [1] 679).
- $C_{34}H_{34}O_5N_4Fe$ 3) Dehydrochloridhämin. HCl, HBr (*H.* 40, 410 *C.* 1904 [1] 679).
- $C_{34}H_{47}O_2N_4P$ 1) Hämatin (*H.* 40, 415 *C.* 1904 [1] 679).
- 1) Verbindung (aus 4-Amido-1,3-Dimethylbenzol). Sm. 98° (*C. r.* 139, 411 *C.* 1904 [2] 764).

— 34 V —

- $C_{34}H_{38}O_1N_4ClFe$ *1) Hämin (*H.* 40, 393 *C.* 1904 [1] 678; *H.* 41, 543 *C.* 1904 [2] 452; *H.* 42, 65 *C.* 1904 [2] 598).
- $C_{34}H_{38}O_4N_4BrFe$ 1) Bromwasserstoffhämin (*H.* 40, 399 *C.* 1904 [1] 679).

C₃₅-Gruppe.

- $C_{35}H_{98}$ C 86,1 — H 13,9 — M. G. 488.
- 1) Kohlenwasserstoff (aus Petroleum) *C.* 1904 [1] 409.

— 35 II —

- $C_{35}H_{26}O_{11}$ 3) Dibenzoat d. Barbaloïn (*C.* 1903 [1] 235). — *III, 453.
- $C_{35}H_{36}O_{12}$ *1) Filixsäure (oder $C_{35}H_{40}O_{12}$) (*Ar.* 242, 496 *C.* 1904 [2] 1418).
- $C_{35}H_{46}O_{10}$ C 67,1 — H 7,4 — O 25,5 — M. G. 626.
- 1) α -Ardisiol. Sm. 107° (*C.* 1903 [1] 837).
- 2) β -Ardisiol. Sm. 183° (*C.* 1903 [1] 837).
- $C_{35}H_{48}O_{11}$ C 65,4 — H 7,2 — O 27,4 — M. G. 642.
- 1) Oxyardisiol. Sm. 191° (*C.* 1903 [1] 837).
- $C_{35}H_{50}O_2$ C 83,6 — H 10,0 — O 6,4 — M. G. 502.
- 1) Benzoat d. Verbindung $C_{29}H_{46}O$. Sm. 195—196° (*J. pr.* [2] 68, 457 *C.* 1904 [1] 191).
- $C_{35}H_{52}O_2$ 3) Benzoat d. Anthesterin (oder $C_{36}H_{54}O_2$). Sm. 284—286° (*Bl.* [3] 27, 1231 *C.* 1903 [1] 237).
- 4) Verbindung (aus *Asclepias syriaca* L.). Sm. 95° (*J. pr.* [2] 68, 412 *C.* 1904 [1] 105).
- $C_{35}H_{52}O_6$ 2) 1-Dimethylester d. $\beta\zeta$ -Diketo- δ -Phenylheptan- $\gamma\epsilon$ -Dicarbonsäure. Sm. 203—206° (*Soc.* 85, 55 *C.* 1904 [1] 360, 788).
- $C_{35}H_{56}O_4$ 2) α -Masticoresen. Sm. 74—75° (*Ar.* 242, 110 *C.* 1904 [1] 1010).
- $C_{35}H_{56}O_5$ 2) $\alpha\beta$ -Dipalmitat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 67° (*C.* 1903 [1] 133).
- 3) $\alpha\gamma$ -Dipalmitat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 69° (*C.* 1903 [1] 133).

— 35 III —

- $C_{35}H_{26}O_3N_2$ *1) Imabenzil. Sm. 195° (*B.* 35, 4138 *C.* 1903 [1] 295).
- $C_{35}H_{26}O_4N_4$ 2) $\beta\beta$ -Di[β -(2-Oxy-1-Naphtyl)azo-4-Oxyphenyl]propan (*C.* 1904 [2] 1737).
- $C_{35}H_{29}O_3N_3$ 2) $\alpha\gamma\epsilon$ -Tri[2-Pyridoyl]- $\beta\delta$ -[Diphenyl]pentan. Sm. 215° (*B.* 35, 4062 *C.* 1903 [1] 91).
- $C_{35}H_{30}O_{10}N_2$ C 65,8 — H 4,7 — O 25,1 — N 4,4 — M. G. 638.
- 1) Tetrabenzoat d. Glykoseureid. Sm. 117° (*R.* 22, 62 *C.* 1903 [1] 1080).
- $C_{35}H_{31}O_{11}N$ C 65,5 — H 4,8 — O 27,5 — N 2,2 — M. G. 641.
- 1) Tetrabenzoylderivat d. Amidoglykoheptonsäure. Sm. 101° (*B.* 35, 4020 *C.* 1903 [1] 391).
- $C_{35}H_{32}N_4S_2$ 1) 4,4'-Di[α -Methyl- β -Phenylthioureido]triphenylmethan. Sm. 124° (*B.* 37, 641 *C.* 1904 [1] 951).
- $C_{35}H_{51}O_4N_3$ C 72,8 — H 8,8 — O 11,1 — N 7,3 — M. G. 577.
- 1) 4-Nitrophenylhydrazon d. Cholestanonolacetat. Sm. 144° (*M.* 24, 654 *C.* 1903 [2] 1235).

— 35 IV —

- $C_{35}H_{32}ON_4S_2$ 1) α -Oxy-4,4'-Di[α -Methyl- β -Phenylthioureido]triphenylmethan. Sm. 136° (*B.* 37, 644 *C.* 1904 [1] 951).

- $C_{35}H_{34}O_6N_2S_2$ 1) Di[2-Naphtalinsulfotyrosyl-dl-Leucin. Sm. 100—105° (*B.* 36, 2606 *C.* 1903 [2] 619).
 $C_{23}H_{51}O_{25}N_6P_4$ 1) Heminukleinsäure + 3H₂O (*C.* 1904 [2] 133).
 $C_{38}H_{50}O_{19}N_6S$ 1) Uroferriinsäure. Ba, Zn (*H.* 37, 282 *C.* 1903 [1] 727).

— 35 V —

- $C_{38}H_{24}O_7N_5Cl_5P_2$ 1) Verbindung (aus Anthranilsäure u. Phosphorpentachlorid). Sm. 148—153° (*B.* 36, 1827 *C.* 1903 [2] 201).

C₃₆-Gruppe.

- $C_{36}H_{18}$ C 96,0 — H 4,0 — M. G. 450.
 1) Trinaphtylenbenzol (Dekakylen). Sm. 387°. Pikrat (*B.* 36, 968 *C.* 1903 [1] 1088; *B.* 36, 1586 *C.* 1903 [2] 46).

— 36 II —

- $C_{36}H_9Cl_9$ 1) Nonochlordekaekylen. Sm. 215—218° u. Zers. (*B.* 36, 3773 *C.* 1903 [2] 1446).
 $C_{36}H_{15}Br_3$ 1) Tribromdekaekylen. Sm. 397—400° (*B.* 36, 3773 *C.* 1903 [2] 1446).
 $C_{36}H_{22}O_8$ 4) Tribenzoat d. 5, 6-Dioxy-2-Keto-1-[3-Oxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 173° (*B.* 29, 2434). — *III, 533.
 $C_{36}H_{22}O_9$ 3) Stictaurin (*C.* 1903 [2] 121).
 $C_{36}H_{24}O_8$ C 74,0 — H 4,1 — O 21,9 — M. G. 584.
 1) Tribenzoat d. Butin. Sm. 155—157° (*C.* 1903 [1] 1415; 1904 [2] 451).
 $C_{36}H_{30}O_2$ C 87,4 — H 6,1 — O 6,5 — M. G. 494.
 1) Verbindung (aus Benzylidenacetophenon). Sm. 180° (*Am.* 29, 360 *C.* 1903 [1] 1180).
 $C_{36}H_{34}N_4$ C 82,8 — H 6,5 — N 10,7 — M. G. 522.
 1) Phenylhydrazinderivat d. Base $C_{80}H_{30}O_2N_2$. Sm. 200° (*C. r.* 137, 608 *C.* 1903 [2] 1180).
 $C_{36}H_{44}N_6$ C 77,2 — H 7,8 — N 15,0 — M. G. 560.
 1) 2, 3, 5, 6-Tetra[4-Dimethylamidophenyl]-2, 3, 5, 6-Tetrahydro-1, 4-Diazin. Sm. 95° (*B.* 37, 1738 *C.* 1904 [1] 1599).
 $C_{36}H_{56}O_4$ C 78,2 — H 10,1 — O 11,6 — M. G. 276.
 1) Resen (aus Gräberharz). Sm. 74,5—76° (*Ar.* 242, 114 *C.* 1904 [1] 1010).
 2) isom. Resen (aus Gräberharz). Sm. 130—131° (*Ar.* 242, 114 *C.* 1904 [1] 1010).
 $C_{36}H_{60}O_6$ 3) Verbindung (aus Guttapercha) oder $C_{34}H_{56}O_8$. Sm. 145° (*C.* 1903 [1] 83).
 $C_{36}H_{60}O_{10}$ * 1) Dilichesterinsäure + 3H₂O (*J. pr.* [2] 68, 34 *C.* 1903 [2] 512).
 $C_{36}H_{64}O_2$ C 81,8 — H 12,1 — O 6,1 — M. G. 528.
 1) Chaulmoogrylester d. Chaulmoograsäure. Sm. 42° (*Soc.* 85, 857 *C.* 1904 [2] 348, 604).
 $C_{36}H_{66}O_4$ C 76,6 — H 12,1 — O 11,3 — M. G. 564.
 1) Laktid d. α -Oxyheptadekan- α -Carbonsäure. Sm. 88,5—90,5° (*Soc.* 85, 835 *C.* 1904 [2] 510).

— 36 III —

- $C_{36}H_{15}O_6N_6$ C 73,8 — H 2,6 — O 16,4 — N 7,2 — M. G. 585.
 1) Trinitrodekaekylen (*B.* 36, 3772 *C.* 1903 [2] 1446).
 $C_{36}H_{22}O_8S$ 1) Anhydro-3, 5-Dimerkapto-4-Thiocarbonyl-1-Keto-2, 6-Diphenyl-1, 4-Dihydrobenzol. Sm. 278° (*B.* 37, 1608 *C.* 1904 [1] 1444).
 $C_{36}H_{26}O_2N_6$ C 71,7 — H 4,3 — O 5,3 — N 18,6 — M. G. 602.
 1) Azoderivat d. 3, 6-Di[4-Amidobenzyl]-1, 2, 4, 5-Tetrazin. Zers. bei 200° (*B.* 35, 3939 *C.* 1903 [1] 39).
 $C_{36}H_{36}O_6N_4$ C 70,8 — H 4,3 — O 15,7 — N 9,2 — M. G. 610.
 1) Tetraenzoylderivat d. 3, 6-Dimethyl-1, 2-Dihydro-1, 3-Diazin-4, 5-Dicarbonsäurecyklohydrazid. Sm. 189—191° (*B.* 37, 95 *C.* 1904 [1] 589).
 $C_{36}H_{36}O_3N_2$ C 80,3 — H 5,6 — O 8,9 — N 5,2 — M. G. 538.
 1) s-Diäthylidiphenylrhodamin (D.R.P. 46354). — *III, 577.

- $C_{36}H_{36}O_3N_2$ C 66,9 — H 4,6 — O 19,8 — N 8,7 — M. G. 646.
 1) Diäthylester d. 4,4'-Biphenylendi[Azobenzoylbrenztraubensäure] (*B. 37*, 2209 *C. 1904* [2] 324).
 $C_{36}H_{36}O_6N_4$ C 69,7 — H 5,8 — O 15,5 — N 9,0 — M. G. 620.
 1) Di[Phenylhydrazon] d. Isobiliansäure. Sm. 262° (*M. 24*, 55 *C. 1903* [1] 765).
 $C_{36}H_{42}O_4N_4$ C 72,7 — H 7,1 — O 10,8 — N 9,4 — M. G. 594.
 1) Dimethylester d. Mesoporphyrin. Sm. 213—214° (*H. 37*, 63 *C. 1903* [1] 45).
 $C_{36}H_{48}O_6N_{17}$ C 24,8 — H 2,5 — O 58,9 — N 13,7 — M. G. 1737.
 1) Nitrostärke (*C. 1903* [1] 1122).
 $C_{36}H_{44}N_6Br_2$ 1) 1,4 - Dibrom - 2,3,5,6 - Tetra[4 - Dimethylamidophenyl]hexahydro-1,4-Diazin. Sm. 95° (*B. 37*, 1739 *C. 1904* [1] 1599).

— 36 IV —

- $C_{38}H_{28}N_4J_2S$ 1) polym. 4-Phenylazodiphenyljodoniumsulfid (*B. 37*, 1315 *C. 1904* [1] 1341).
 $C_{38}H_{43}O_7N_2J$ 1) Methylhydroxyd d. Pseudomorphinjodmethylat (*B. 13*, 93). — III, 911.
 $C_{38}H_{61}O_2N_4P$ 1) Verbindung (aus 4-Amido-1,3-Dimethylbenzol). Sm. 107° (*C. r. 139*, 411 *C. 1904* [2] 764).

C₃₇-Gruppe.

- $C_{37}H_{28}N_3$ 2) 4-Phenylimido-1-Di[4-Phenylamidophenyl]methylen-1,4-Dihydrobenzol (4,4'-Diphenylamidofuchsonphenylimin). Sm. 237—238°. HCl, Pikrat (*B. 37*, 2870 *C. 1904* [2] 777).
 $C_{37}H_{31}N_3$ C 85,9 — H 6,0 — N 8,1 — M. G. 517.
 1) 4,4',4''-Tri[Phenylamidophenyl]methan. Sm. 182—184° (*B. 37*, 2873 *C. 1904* [2] 777).
 $C_{37}H_{36}N_4$ C 82,9 — H 6,7 — N 10,4 — M. G. 536.
 1) Phenylhydrazonderivat d. Base $C_{31}H_{32}O_2N_2$. Sm. 220° (*C. r. 137*, 608 *C. 1903* [2] 1180).
 $C_{37}H_{37}N_3$ C 84,9 — H 7,1 — N 8,0 — M. G. 523.
 1) Tri[4-Aethylamido-1-Naphtyl]methan. Sm. oberh. 300° (*C. 1903* [1] 88; *B. 37*, 1912 *C. 1904* [2] 115).
 $C_{37}H_{54}O_2$ *1) Benzoat d. α -Amyrin. Sm. 191—192° (*Ar. 241*, 154 *C. 1903* [1] 1029).
 *2) Benzoat d. β -Amyrin. Sm. 229° (*Ar. 241*, 155 *C. 1903* [1] 1029; *J. pr.* [2] 68, 452 *C. 1904* [1] 191).
 $C_{37}H_{56}O_4$ 2) Carelemisäure. Sm. 120° (*Ar. 241*, 152 *C. 1903* [1] 1029; *Ar. 242*, 119 *C. 1904* [1] 1011).
 3) α -Isocolelemisäure. Sm. 120—122° (*Ar. 242*, 349 *C. 1904* [2] 526).
 4) β -Isocolelemisäure. Sm. 120° (*Ar. 242*, 350 *C. 1904* [2] 526).
 5) Tacelemisäure. Sm. 215° (*Ar. 242*, 357 *C. 1904* [2] 527).
 6) α -Isotacelemisäure. Sm. 120—121° (*Ar. 242*, 355 *C. 1904* [2] 527).
 7) β -Isotacelemisäure. Sm. 120° (*Ar. 242*, 358 *C. 1904* [2] 527).
 $C_{37}H_{60}O_{10}$ C 66,9 — H 9,0 — O 24,1 — M. G. 664.
 1) Gratioligenin. Sm. 285° (*Ar. 240*, 564 *C. 1903* [1] 42).

— 37 III —

- $C_{37}H_{31}ON_3$ C 83,3 — H 5,8 — O 3,0 — N 7,9 — M. G. 533.
 1) α -Oxy-4,4',4''-Tri[Phenylamido]triphenylmethan. Sm. 85° (*B. 37*, 2873 *C. 1904* [2] 777).
 $C_{37}H_{32}N_3Cl$ 1) Chlorid d. α -Oxy- $\alpha\alpha\alpha$ -Tri[4-Aethylamido-1-Naphtyl]methan (*B. 37*, 1914 *C. 1904* [2] 116).
 $C_{37}H_{34}O_4N_2$ C 77,9 — H 6,0 — O 11,2 — N 4,9 — M. G. 570.
 1) Dibenzoat d. 4,4'-Di[Dimethylamido]-3,4-Dioxytriphenylmethan. Sm. 154° (*B. 36*, 2918 *C. 1903* [2] 1065).
 $C_{37}H_{36}O_6N_5$ C 68,8 — H 5,4 — O 14,9 — N 10,8 — M. G. 645.
 1) Di[Phenylhydrazon] d. 3-Nitrobenzylidendivanillindimethyläther. Sm. 203,5—204,5° (*B. 36*, 3978 *C. 1904* [1] 373).

- $C_{37}H_{38}ON_4$ C 80,5 — H 6,5 — O 2,9 — N 10,1 — M. G. 552.
 1) **Verbindung** (aus d. Verb. $C_{31}H_{32}O_3N_3$). Sm. 203° (*C. r.* **138**, 212 *C. 1904* [1] 663).
- $C_{37}H_{42}O_5N_4$ C 71,4 — H 6,7 — O 12,9 — N 9,0 — M. G. 622.
 1) **Verbindung** (aus Aspidin u. Phenylhydrazin). Sm. 208—209° (*A.* **329**, 331 *C. 1904* [1] 800).
 2) **Verbindung** (aus Pseudoaspidin). Sm. 201—202° (*A.* **329**, 335 *C. 1904* [1] 800).
- $C_{37}H_{44}O_3N_2$ C 76,0 — H 11,0 — O 8,2 — N 4,8 — M. G. 584.
 1) **Spilanthol** (*Ar.* **241**, 280 *C. 1903* [2] 451).
- $C_{37}H_{47}O_2N$ C 79,7 — H 12,0 — O 5,7 — N 2,5 — M. G. 557.
 1) **Phenylamidoformiat d. α -Oxytriakontan.** Sm. 91,5 (*Bl.* [3] **31**, 53 *C. 1904* [1] 507).

C₃₈-Gruppe.

- $C_{38}H_{30}$ *1) **Hexaphenyläthan.** Sm. 226—227° (*B.* **35**, 3918 *C. 1903* [1] 84; *B.* **36**, 379 *C. 1903* [1] 716; *C. r.* **137**, 59 *C. 1903* [2] 574; *B.* **37**, 2397 *C. 1904* [2] 443).
 2) **bim. Triphenylmethyl.** Sm. 145—147°. + C_6H_6 , + 2 Molec. Aether, + Essigsäureäthylester (*B.* **33**, 3150; **34**, 2726; *B.* **34**, 3815 *C. 1902* [1] 44; *B.* **35**, 1822 *C. 1902* [2] 210; *B.* **36**, 320 *C. 1903* [1] 638; *B.* **36**, 579 *C. 1903* [1] 638; *B.* **36**, 376 *C. 1903* [1] 715; *B.* **37**, 2033 *C. 1904* [2] 225; *B.* **37**, 2397 *C. 1904* [2] 443). — *II, 128.
- 38 II —
- $C_{38}H_{24}S$ 1) **Dibenzylidinaphthylthiophen.** Sm. 207—210° (*Bl.* [3] **31**, 928 *C. 1904* [2] 779).
- $C_{38}H_{26}O_4$ C 83,5 — H 4,8 — O 11,7 — M. G. 546.
 1) **Verbindung** (aus Resorcin u. Benzil). Sm. 229° (*B.* **36**, 3051 *C. 1903* [2] 1006).
 2) **Verbindung** (aus d. Verb. $C_{40}H_{28}O_5$) (*B.* **36**, 3053 *C. 1903* [2] 1009).
 C 85,7 — H 5,2 — O 9,0 — M. G. 532.
- $C_{38}H_{28}O_3$ 1) **Verbindung** (aus d. Verb. $C_{40}H_{28}O_5$). Sm. 278° (*B.* **36**, 3053 *C. 1903* [2] 1009).
 C 83,2 — H 5,1 — O 11,7 — M. G. 548.
- $C_{38}H_{28}O_4$ 1) **Verbindung** (aus d. Verb. $C_{40}H_{28}O_5$) (*B.* **36**, 3052 *C. 1903* [2] 1009).
- $C_{38}H_{30}O_2$ *1) **Triphenylmethylperoxyd** (*B.* **37**, 3538 *C. 1904* [2] 1737).
 $C_{38}H_{30}O_8$ C 74,3 — H 4,9 — O 20,8 — M. G. 614.
 1) **Tetrabenzoat d. 2,3,5,6-Tetraoxy-1,4-Diäthylbenzol.** Sm. 275° (*B.* **37**, 2387 *C. 1904* [2] 308).
- $C_{38}H_{30}N_2$ C 88,7 — H 5,8 — N 5,4 — M. G. 514.
 1) **Anhydro- α -Oxy-2-Amidotriphenylmethan.** Sm. 250° u. Zers. (*B.* **37**, 3196 *C. 1904* [2] 1472).
 2) **Anhydro- α -Oxy-4-Amidotriphenylmethan.** Sm. 300° u. Zers. Pikrat (*B.* **37**, 603 *C. 1904* [1] 886).
- $C_{38}H_{32}O_3$ *1) **$\alpha\gamma\epsilon$ -Tribenzoyl- $\beta\delta\delta$ -Diphenylpentan. β -Modif.** Sm. 255—256°. + C_6H_6 , + C_2H_6 (*Soc.* **83**, 366 *C. 1903* [1] 578, 1129).
 C 82,6 — H 5,8 — O 11,6 — M. G. 552.
- $C_{38}H_{32}O_4$ 1) **Verbindung** (aus d. Verb. $C_{38}H_{28}O_4$) (*B.* **36**, 3052 *C. 1903* [2] 1009).
 C 87,4 — H 6,5 — O 6,1 — M. G. 522.
- $C_{38}H_{34}O_2$ 1) **$\alpha\epsilon$ -Diketo- $\alpha\beta\delta\epsilon$ -Tetraphenyl- γ -[4-Isopropylphenyl]pentan.** Sm. 225° (*B.* **35**, 3969 *C. 1903* [1] 31).
 C 80,7 — H 6,9 — N 12,4 — M. G. 565.
- $C_{38}H_{38}N_5$ 1) **Phenylhydrazinderivat d. Phtalgrün.** Sm. 288° (*C. 1903* [1] 86; *C. r.* **137**, 609 *C. 1903* [2] 1181).
 2) **Heptaacetat d. Onospin.** Sm. 76—80° (*M.* **24**, 144 *C. 1903* [1] 1033).
 C 79,1 — H 9,7 — O 11,1 — M. G. 576.
- $C_{38}H_{40}O_{17}$ 1) **Carielemensäure.** Sm. 215° (*Ar.* **242**, 118 *C. 1904* [1] 1011).
 $C_{38}H_{38}O_4$ 2) **Isocarielemensäure.** Sm. 75—76° (*Ar.* **242**, 118 *C. 1904* [1] 1011).
- $C_{38}H_{74}O_4$ *3) **Distearat d. $\alpha\beta$ -Dioxyäthan.** Sm. 79°; Sd. 241° (*B.* **36**, 4340 *C. 1904* [1] 433).

— 38 III —

- $C_{35}H_{24}ON_2$ C 87,0 — H 4,6 — O 3,1 — N 5,3 — M. G. 524.
 1) Aether d. 5-[3-Oxyphenyl]akridin. Sm. 366—367° u. Zers. (2HCl, $PtCl_4$), (2HCl, 2AuCl₃), 2(H₂Cr₂O₇), Pikrat (*B.* [3] 31, 1086 *C.* 1904 [2] 1509).
- $C_{35}H_{24}O_2Cl_6$ 1) Peroxyd d. α -Oxy-4,4',4''-Trichlortriphenylmethan. Sm. 140—142° (*B.* 37, 1636 *C.* 1904 [1] 1649).
- $C_{35}H_{24}O_{14}N_8$ * 1) Peroxyd d. α -Oxytri[4-Nitrophenyl]methan. Sm. 218° (*B.* 37, 1640 *C.* 1904 [1] 1649).
- $C_{35}H_{28}O_2Cl_2$ 1) Peroxyd d. α -Oxy-4-Chlortriphenylmethan. Sm. 165° (*B.* 37, 1634 *C.* 1904 [1] 1649).
- $C_{35}H_{28}O_2Br_2$ 1) Peroxyd d. α -Oxy-4-Bromtriphenylmethan. Sm. 167° (*B.* 37, 1634 *C.* 1904 [1] 1649).
- $C_{35}H_{28}O_2J_2$ 1) Peroxyd d. α -Oxy-4-Jodtriphenylmethan. Sm. 169° (*B.* 37, 1634 *C.* 1904 [1] 1649).
- $C_{35}H_{29}O_5N$ C 78,7 — H 5,0 — O 13,8 — N 2,4 — M. G. 579.
 1) Dibenzot d. Benzoylapomorphin. Sm. 217—218° (*B.* 35, 4385 *C.* 1903 [1] 338).
- $C_{35}H_{30}O_2N_4$ C 79,4 — H 5,2 — O 5,6 — N 9,8 — M. G. 574.
 1) Dibenzyläther d. 4,4'-Di[4-Oxyphenylazo]biphenyl (*B.* 36, 2975 *C.* 1903 [2] 1031).
- $C_{35}H_{31}ON$ C 88,2 — H 6,0 — O 3,1 — N 2,7 — M. G. 517.
 1) Di[Triphenylmethyl]hydroxylamin. Sm. 184° (*B.* 37, 3151 *C.* 1904 [2] 1047).
- $C_{35}H_{32}O_5N_2$ C 74,5 — H 5,3 — O 15,7 — N 4,5 — M. G. 612.
 1) Tetrabenzoat d. Skatosin. Sm. 169° (*C.* 1903 [1] 411).
- $C_{35}H_{38}ON_4$ C 80,6 — H 6,7 — O 2,8 — N 9,9 — M. G. 566.
 1) Verbindung (aus d. Verb. $C_{32}H_{34}O_3N_2$). Sm. 186° (*C. r.* 138, 213 *C.* 1904 [1] 663).
- $C_{35}H_{42}N_2Br_2$ 1) 10,10'-Bi[5-Brom-1,3,4,6,7,9-Hexamethyl-5,10-Dihydroakridin] (*Soc.* 85, 1203 *C.* 1904 [2] 1060).
- $C_{35}H_{42}N_2Br_6$ 1) 10,10'-Bi[1,3,4,6,7,9-Hexamethylakridin]hexabromid. Sm. 287° (*Soc.* 81, 285; *Soc.* 85, 1202 *C.* 1904 [2] 1060).
- $C_{35}H_{42}N_2J_6$ 1) 10,10'-Bi[1,3,4,6,7,9-Hexamethylakridin]hexajodid. Sm. 275° (*Soc.* 85, 1203 *C.* 1904 [2] 1060).
- $C_{35}H_{48}O_4N_4$ C 73,3 — H 7,4 — O 10,3 — N 9,0 — M. G. 622.
 1) Diäthylester d. Mesoporphyrin. Sm. 202—203°. Cu (*H.* 37, 63 *C.* 1903 [1] 45).
- $C_{35}H_{74}N_2Br_2$ 1) Di[Bromisoamylat] d. 1,3-Di[Diisoamylamidomethyl]benzol. + Br₄ (*B.* 36, 1678 *C.* 1903 [2] 29).
- $C_{35}H_{78}O_2N_2$ C 77,0 — H 12,8 — O 5,4 — N 4,7 — M. G. 592.
 1) Di[Isoamyoxydhydrat] d. 1,3-Di[Diisoamylamidomethyl]benzol. Bromid + Br₄, 2 Pikrat (*B.* 36, 1678 *C.* 1903 [2] 29).
- $C_{35}H_{78}O_{11}N_4$ C 59,5 — H 10,2 — O 23,0 — N 7,3 — M. G. 766.
 1) Verbindung (aus Ketipinsäurediäthylester u. Benzyliden- β -Naphthylamin). Sm. 80° (*B.* [3] 23, 437). — *III, 23.

— 38 IV —

- $C_{35}H_{34}N_6S_2Si$ 1) Verbindung (aus Phenylsenföl u. Silicotetraphenylamid) (*Soc.* 83, 255 *C.* 1903 [1] 875).

C₃₉-Gruppe.

- $C_{39}H_{28}O$ C 91,4 — H 5,4 — O 3,1 — M. G. 512.
 1) Tetraphenyldiphenylenpropylenoxyd. Sm. 202—203° (*B.* 29, 736). — *II, 994.
- $C_{39}H_{28}O_3$ C 86,0 — H 5,1 — O 8,8 — M. G. 544.
 1) Tetraphenyldiphenylentrioxymethylen. Sm. 205—206° (*B.* 29, 736). — *II, 993.

- $C_{99}H_{90}O$ C 91,0 — H 5,8 — O 3,1 — M. G. 514.
 1) Verbindung (aus Tetraphenyldiphenylenpropylenoxyd). Sm. 186° (B. 29, 737). — *II, 994.
 2) Verbindung (aus Tetraphenyldiphenylenpropylenoxyd). Sm. 223° (B. 29, 737). — *II, 994.
- $C_{99}H_{90}O_2$ C 88,3 — H 5,7 — 6,0 — M. G. 530.
 1) Verbindung (aus d. Säure $C_{40}H_{30}O_2$). Sm. 220° (B. 29, 737). — *II, 994.
- $C_{99}H_{94}O_3$ C 85,1 — H 6,2 — O 8,7 — M. G. 550.
 1) $\alpha\gamma\epsilon$ -Tribenzoyl- $\beta\delta$ -Diphenylhexan. Sm. 241–242° (Soc. 83, 362 C. 1903 [1] 577, 1129).
 C 79,6 — H 9,5 — O 10,9 — M. G. 588.
- $C_{99}H_{90}O_4$ 1) Coleleminsäure. Sm. 215° (Ar. 242, 349 C. 1904 [2] 526).
 2) $\alpha\beta$ -Dioleat d. $\alpha\beta\gamma$ -Trioxypropan (C. 1903 [1] 133).
 3) $\alpha\gamma$ -Dioleat d. $\alpha\beta\gamma$ -Trioxypropan (C. 1903 [1] 133).
- $C_{99}H_{74}O_6$ *1) Glycerintrilaurin. Sm. 45° (B. 36, 4344 C. 1904 [1] 434).
 $C_{99}H_{76}O_5$ *1) Glycerindistearin. Sm. 74,2° (B. 36, 1124 C. 1903 [1] 1312).
 2) $\alpha\beta$ -Distearat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 74,5° (C. 1903 [1] 133; 1904 [2] 414).
 3) $\alpha\gamma$ -Distearat d. $\alpha\beta\gamma$ -Trioxypropan (α -Distearin). Sm. 72,5° (C. 1903 [1] 133; 1904 [2] 414).

— 39 III —

- $C_{99}H_{99}O_{12}N$ C 65,6 — H 5,4 — O 26,9 — N 2,0 — M. G. 713.
 1) Adlumin (oder $C_{99}H_{41}O_{12}N$). Sm. 188° (C. 1903 [1] 1142).
 C 76,2 — H 6,8 — O 7,8 — N 9,1 — M. G. 614.
- $C_{99}H_{42}O_9N_4$ 1) Carbonat d. Cinchonidin. Sm. 117° (C. 1900 [1] 319). — *III, 641.
 C 71,7 — H 7,2 — O 14,7 — N 6,4 — M. G. 653.
- $C_{99}H_{47}O_6N_3$ 1) Verbindung (aus Phtalonsäure u. 3-Diäthylamido-1-Oxybenzol). Sm. 175° (D.R.P. 87028, 89092). — *II, 1129.
- $C_{99}H_{53}O_{10}N$ *1) Benzoylceevin. Sm. 257°. $HCl + H_2O$, HJ , HNO_3 , Benzoat + H_2O (B. 37, 1948 C. 1904 [2] 125).
- $C_{99}H_{61}O_9N$ C 81,4 — H 10,6 — O 5,6 — N 2,4 — M. G. 575.
 1) Solanidin (B. 36, 3206 C. 1903 [2] 1066).

 C_{40} — C_{95} -Gruppen.

- $C_{40}H_{26}O_4$ C 84,2 — H 4,6 — O 11,2 — M. G. 570.
 1) Peroxyd (aus 9-Chlor-10-Keto-9-Phenyl-9,10-Dihydroanthracen). Sm. 219° (B. 37, 3340 C. 1904 [2] 1057).
 C 81,9 — H 4,4 — O 13,7 — M. G. 586.
- $C_{40}H_{26}O_5$ 1) Dibenzat d. 10-Keto-9,9-Di[4-Oxyphenyl]-9,10-Dihydroanthracen. Sm. 224–225° (B. 36, 2022 C. 1903 [2] 378).
 C 81,6 — H 4,7 — O 13,6 — M. G. 588.
- $C_{40}H_{28}O_5$ 1) Anhydroverbindung d. Base $C_{40}H_{30}O_8$. $HCl + \frac{1}{2}H_2O$, $H_2SO_4 + \frac{1}{2}H_2O$, Pikrat (B. 36, 3052 C. 1903 [2] 1009).
 C 83,6 — H 5,2 — O 11,2 — M. G. 574.
- $C_{40}H_{30}O_4$ 1) Säure (aus α -Oxydiphenyllessigsäure). Sm. 208–210° u. Zers. K + H_2O , Ag (B. 29, 735). — *II, 993.
 C 79,2 — H 5,0 — O 15,8 — M. G. 606.
- $C_{40}H_{30}O_6$ 1) Dilakton d. Säure $C_{40}H_{34}O_8$. Sm. 168° (B. 32, 2332; B. 36, 3047 C. 1903 [2] 1008).
 2) Base (aus der Verbindung $C_{40}H_{28}O_6$). $Na_2 + 2H_2O$, $K_2 + 2H_2O$ (B. 36, 3052 C. 1903 [2] 1009).
 3) Verbindung (aus Resorcin u. Benzil) (B. 36, 3051 C. 1903 [2] 1009).
 C 87,9 — H 6,2 — O 5,9 — M. G. 546.
- $C_{40}H_{34}O_2$ 1) Peroxyd d. α -Oxy-4-Methyltriphenylmethan. Sm. 170–171° (B. 37, 1633 C. 1904 [1] 1649).
 C 74,8 — H 5,3 — O 19,9 — M. G. 642.
- $C_{40}H_{34}O_3$ 1) Säure + $2H_2O$ (aus Resorcin u. Benzil). $(NH_4)_2 + 2C_2H_5O$, $Na_2 + 4H_2O$, $Na_3 + 9H_2O$, $Na_6 + 2C_2H_5O + 8H_2O$, $K_2 + 2C_2H_5O$ (B. 36, 3047 C. 1903 [2] 1008).

- $C_{40}H_{44}O_{20}$ C 56,9 — H 5,2 — O 37,9 — M. G. 844.
- $C_{40}H_{16}O_{21}$ 1) Erythrin + $2H_2O$. Sm. 146—148° (*Bl.* [3] 31, 610 *C.* 1904 [2] 98).
C 55,7 — H 5,3 — O 39,0 — M. G. 862.
- $C_{40}H_{58}O_4$ 1) Anhydrodierythrinsäure (*Bl.* [3] 31, 611 *C.* 1904 [2] 99).
C 80,0 — H 9,3 — O 10,7 — M. G. 600.
- $C_{40}H_{66}O$ 1) Careleminsäure. Sm. 215° (*Ar.* 241, 151 *C.* 1903 [1] 1029).
2) Isocareleminsäure. Sm. 75° (*Ar.* 241, 149 *C.* 1903 [1] 1029).
C 85,4 — H 11,7 — O 2,8 — M. G. 562.
- 1) Verbindung (aus *Asclepias syriaca* L.). *Fl.* (*J. pr.* [2] 68, 416 *C.* 1904 [1] 105).
- $C_{40}H_{68}S_5$ 1) Sulfid (aus Campher). Sm. 145—155° (*B.* 36, 866 *C.* 1903 [1] 972).
 $C_{40}H_{26}O_5N_4$ C 80,8 — H 4,4 — O 5,4 — N 9,4 — M. G. 594.
- 1) 4,4'-Di[2-Naphtylazo]-3,3'-Dioxy-2,2'-Binaphtyl (*C. r.* 138, 1618 *C.* 1904 [2] 338).
- $C_{40}H_{32}O_{14}S_2$ 1) Sulfonsäure (aus d. Verb. $C_{40}H_{26}O_5$) (*B.* 36, 3054 *C.* 1903 [2] 1009).
 $C_{40}H_{34}O_1N_6$ C 72,5 — H 5,1 — O 9,7 — N 12,7 — M. G. 662.
- 1) Bisdiazooamidorosanilin (*Bl.* [3] 31, 646 *C.* 1904 [2] 109).
- $C_{40}H_{36}O_9N_6$ C 64,3 — H 5,1 — O 19,3 — N 11,3 — M. G. 746.
- 1) Tetra[Phenylamidoformiat] d. α -[$\beta\gamma\delta\epsilon$ -Tetraoxyamyl]- β -Phenylharnstoff (Arabinaminphenylharnstofftetraacamat). Sm. 303° u. Zers. (*C. r.* 136, 1081 *C.* 1903 [1] 1305).
- $C_{40}H_{65}O_3Cl$ 2) Verbindung (aus d. Verb. $C_{17}H_{28}O$ aus Guttapercha). Sm. 170° (*C.* 1903 [1] 83).
- $C_{40}H_{32}O_4NCl$ 1) Tri[2-Oxy-1-Naphtylmethyl]amin + Benzoylchlorid. HCl (*G.* 34 [1] 221 *C.* 1904 [1] 1523).
- $C_{40}H_{32}O_6N_4S_2$ 1) Dibenzylbrillantgelb (*B.* 36, 2977 *C.* 1903 [2] 1031).
- $C_{40}H_{50}O_{37}N_{14}P_4$ 1) Nukleinsäure (Rhomnol) (*C.* 1904 [1] 602).
- $C_{40}H_{56}O_{32}N_{14}P_4$ 1) Thymusnucleinsäure (*C.* 1903 [2] 1013).
- $C_{41}H_{32}O_4$ 2) Methylester d. Säure $C_{40}H_{30}O_4$. Sm. 208—209° (*B.* 29, 736). — *II, 993.
- $C_{41}H_{32}O_{10}$ C 71,9 — H 4,7 — O 23,4 — M. G. 684.
- 1) Pentabenzooat d. 1-Quercit. Sm. 148°. + C_2H_6O (*Soc.* 85, 627 *C.* 1904 [2] 329).
- $C_{41}H_{34}O_6$ C 81,2 — H 5,6 — O 13,2 — M. G. 606.
- 1) Verbindung (aus Benzophenon u. Benzaldehyd). Sm. 236—237° (*B.* 36, 1579 *C.* 1903 [1] 1398).
- $C_{41}H_{34}N_4$ C 84,5 — H 5,8 — N 9,6 — M. G. 582.
- 1) Chinoxalinderivat aus Phenanthrenchinon u. Di[4-Dimethylamidophenyl]-3,4-Diamido-1-Naphtylmethan. Sm. oberh. 336° (*B.* 37, 1910 *C.* 1904 [2] 115).
- $C_{41}H_{35}N_3$ C 86,4 — H 6,2 — N 7,4 — M. G. 569.
- 1) 4-Dimethylamidophenyldi[4-Phenylamido-1-Naphtyl]methan (*B.* 37, 1911 *C.* 1904 [2] 115).
- $C_{41}H_{36}O_{12}$ C 68,3 — H 5,0 — O 26,7 — M. G. 720.
- 1) Pentaacetat d. Dichrysarobinmethyläther. Sm. 135° (*Soc.* 81, 1583 *C.* 1903 [1] 34, 167).
- $C_{41}H_{70}O_3$ C 80,6 — H 11,5 — O 7,8 — M. G. 610.
- 1) Verbindung (aus Cyklogalliparsäure). Sm. 48° (*Ar.* 242, 272 *C.* 1904 [1] 1654).
- $C_{41}H_{22}ON_4$ C 83,9 — H 3,8 — O 2,7 — N 9,6 — M. G. 586.
- 1) Azin (aus Phenanthrenchinon u. 3,4,3',4'-Tetraamidodiphenylketon). Zers. bei 160° (*G.* 34 [1] 381 *C.* 1904 [2] 111).
- $C_{41}H_{32}O_8N_4$ C 69,5 — H 4,5 — O 18,0 — N 7,9 — M. G. 708.
- 1) Methylenedioindisazobenzol. Sm. 246° (*A.* 329, 277 *C.* 1904 [1] 795).
- $C_{41}H_{33}O_4N$ C 81,6 — H 5,5 — O 10,6 — N 2,3 — M. G. 603.
- 1) Tribenzyläther d. Phenolphthaleinoxim. Sm. 134° (*B.* 36, 2967 *C.* 1903 [2] 1007).
- $C_{41}H_{34}O_2N_4$ C 80,1 — H 5,5 — O 5,2 — N 9,1 — M. G. 614.
- 1) 3-Nitro-4-Dimethylamidophenyldi[4-Phenylamido-1-Naphtyl]methan (*B.* 37, 1912 *C.* 1904 [2] 115).
- $C_{41}H_{34}N_3Cl$ 1) Chlorid d. α -Oxy- α -[4-Dimethylamidophenyl]- $\alpha\alpha$ -Di[4-Phenylamido-1-Naphtyl]methan (*B.* 37, 1914 *C.* 1904 [2] 116).

- $C_{41}H_{37}O_{11}N_5$ C 63,5 — H 4,8 — O 22,7 — N 9,0 — M. G. 775.
 1) Penta[Phenylamidoformiat] d. d-Galaktose. Sm. 275° u. Zers. (C. r. 138, 634 C. 1904 [1] 1068).
 2) Penta[Phenylamidoformiat] d. d-Glykose. Sm. 255° (C. r. 138, 634 C. 1904 [1] 1068).
- $C_{41}H_{51}O_{10}N$ C 68,6 — H 7,1 — O 22,3 — N 2,0 — M. G. 717.
 1) Dibenzoylcevin. Sm. 195—196°. HCl + H₂O, Benzoat (B. 37, 1951 C. 1904 [2] 126).
- $C_{41}H_{44}O_{16}N_{10}Cr$ 1) Verbindung (aus Diphenylcarbазид) (Bl. [3] 31, 298 C. 1904 [1] 1176).
- $C_{41}H_{74}O_{26}N_{14}P_4$ 1) α -Nukleinsäure. Ba (H. 39, 556 C. 1903 [2] 1285).
 * 1) Bisdinaphtoxanthen. Sm. 300° u. Zers. (C. r. 136, 380 C. 1903 [1] 647).
- $C_{42}H_{36}O_3$ * 1) Bisdinaphtoxanthenoxyd (C. 1904 [2] 122).
 $C_{42}H_{26}N_2$ C 90,0 — H 5,0 — N 5,0 — M. G. 560.
 1) Naphtakrihydridin. Sm. 235—236° (225—226°) (Soc. 73, 541; B. 35, 4169 C. 1903 [1] 172).
 C 77,8 — H 4,9 — O 17,3 — M. G. 648.
- $C_{42}H_{32}O_7$ 1) Acetat d. Dilakton C₄₀H₃₀O₆. Sm. 120° (B. 36, 3047 C. 1903 [2] 1008).
 C 74,1 — H 4,7 — O 21,2 — M. G. 680.
- $C_{42}H_{32}O_9$ 1) Tribenzoat d. Cureumin. Sm. 176—178° (Soc. 85, 63 C. 1904 [1] 729).
 C 77,6 — H 5,2 — O 17,2 — M. G. 650.
- $C_{42}H_{34}O_7$ 1) Verbindung (aus d. Verb. C₄₀H₂₈O₅) (B. 36, 3053 C. 1903 [2] 1009).
 $C_{42}H_{36}O_{13}$ 2) Hexaacetat d. Dichrysarobin. Sm. 179—181° (Soc. 81, 1581 C. 1903 [1] 34, 167).
- $C_{42}H_{38}O_2$ C 87,8 — H 6,6 — O 5,6 — M. G. 574.
 1) Peroxyd α -Oxy-4,4'-Dimethyltriphenylmethan. Sm. 147 bis 148° (B. 37, 1631 C. 1904 [1] 1649).
 2) $\gamma\delta$ -Dioxy- $\alpha\alpha\gamma\delta\epsilon\zeta$ -Hexaphenylhexan. Sm. 195° (Am. 29, 356 C. 1903 [1] 1180; Am. 31, 644 C. 1904 [2] 445).
 C 54,0 — H 4,9 — O 41,1 — M. G. 934.
- $C_{42}H_{46}O_{24}$ 1) Heptaacetat d. Cocacitrin. Sm. 118° (J. pr. [2] 66, 406 C. 1903 [1] 527).
 C 44,2 — H 5,3 — O 50,5 — M. G. 1140.
- $C_{42}H_{40}O_{36}$ 1) Monoformiat d. Stärke (C. 1904 [2] 1029).
 $C_{42}H_{26}N_2Cl_2$ 1) Bi[β -Naphtakridin]dichlorid. Sm. noch nicht bei 300° (Soc. 85, 1205 C. 1904 [2] 1060).
- $C_{42}H_{26}N_2Br_6$ 1) Bi[α -Naphtakridin]hexabromid. Sm. 234° u. Zers. (Soc. 85, 1204 C. 1904 [2] 1060).
 2) Bi[β -Naphtakridin]hexabromid (Soc. 85, 1205 C. 1904 [2] 1060).
- $C_{42}H_{26}N_2J_6$ 1) Bi[α -Naphtakridin]hexajodid (Soc. 85, 1204 C. 1904 [2] 1060).
 $C_{42}H_{30}N_8S_2$ 1) 1-[4,4'-Biphenylazo]-2-Merkapto-4,5-Diphenylimidazol. Sm. 120 bis 122° u. Zers. (B. 37, 700 C. 1904 [1] 1562).
- $C_{42}H_{31}O_6Cl$ 1) Verbindung (aus d. Verb. C₄₀H₂₈O₅ u. Acetylchlorid) (B. 36, 3053 C. 1903 [2] 1009).
 C 68,5 — H 6,0 — O 21,7 — N 3,8 — M. G. 736.
- $C_{42}H_{44}O_{10}N_2$ 1) Tetraacetylpsedomorphin + 8H₂O. Sm. 276° (wasserfrei). 2HCl + 4H₂O, (2HCl, PtCl₄ + 6H₂O) (Ar. 228, 586; A. 222, 245). — *III, 678.
- $C_{42}H_{34}ON_5J_2$ 1) Di[Jodäthylat] d. 5-[3-Oxyphenyl]akridinäther. Sm. 208—209° (Bl. [3] 31, 1090 C. 1904 [2] 1509).
 $C_{42}H_{26}O_{11}$ C 71,9 — H 3,6 — O 24,5 — M. G. 718.
 1) Tetrabenzoat d. 3,5,7-Trioxo-2-[3,4-Dioxyphenyl]-1,4-Benzopyron (T. d. Quercetin). Sm. 239° (Ar. 229, 246). — *III, 448.
- $C_{43}H_{34}O_5$ C 81,9 — H 5,4 — O 12,7 — M. G. 630.
 1) Dibenzoat d. $\alpha\epsilon$ -Dioxy- γ -Keto- $\alpha\beta\delta\epsilon$ -Tetraphenylpentan. Sm. 136° (M. 24, 722 C. 1904 [1] 167).
 C 86,4 — H 6,5 — N 7,0 — M. G. 597.
- $C_{43}H_{39}N_3$ 1) 4-Dimethylamidophenylidi[4-p-Methylphenylamido-1-Naphtyl]-methan (B. 37, 1911 C. 1904 [2] 115).
 C 69,2 — H 9,4 — O 21,4 — M. G. 746.
- $C_{43}H_{70}O_{10}$ 1) Porin. Sm. 166° (J. pr. [2] 68, 62 C. 1903 [2] 513).

- $C_{49}H_{70}O_{15}$ C 62,5 — H 8,5 — O 29,0 — M. G. 826.
- $C_{43}H_{72}O_2$ 1) **Gratiolin.** Sm. 235–237° u. Zers. (*Ar.* 240, 564 *C.* 1903 [1] 42).
C 83,2 — H 11,6 — O 5,2 — M. G. 620.
- $C_{43}H_{38}O_2N_4$ 1) **Tacamahinsäure.** Sm. 95° (*Ar.* 242, 396 *C.* 1904 [2] 527).
C 80,4 — H 5,9 — O 5,0 — N 8,7 — M. G. 642.
- $C_{43}H_{38}N_3Cl$ 1) **3-Nitro-4-Dimethylamidophenylidi[4-p-Methylphenylamido-1-Naphtyl]methan** (*B.* 37, 1912 *C.* 1904 [2] 115).
- $C_{44}H_{22}$ 1) **Chlorid d. α -Oxy- α -[4-Dimethylamidophenyl]- α -Di[4-p-Methylphenylamido-1-Naphtyl]methan** (*B.* 37, 1914 *C.* 1904 [2] 116).
C 96,0 — N 4,0 — M. G. 550.
- $C_{44}H_{32}O_7$ 1) **$\alpha\beta$ -Tri[4-Methylphenyl]äthan** (*B.* 37, 1628 *C.* 1904 [1] 1648).
C 78,6 — H 4,8 — O 16,6 — M. G. 672.
- $C_{44}H_{34}O_2$ 1) **Diacetat d. Verb. $C_{40}H_{30}O_5$** (*B.* 36, 3053 *C.* 1903 [2] 1009).
C 88,9 — H 5,7 — O 5,4 — M. G. 594.
- $C_{44}H_{34}O_7$ 1) **1,4-Di[4-Oxytriphenylmethyl]benzol.** Sm. 304° (*B.* 37, 2007 *C.* 1904 [2] 225).
C 78,3 — H 5,0 — O 16,6 — M. G. 674.
- $C_{44}H_{34}O_6$ 1) **Diacetat d. Verb. $C_{40}H_{30}O_5$** (*B.* 36, 3053 *C.* 1903 [2] 1009).
2) **Dilakton $C_{40}H_{30}O_6$.** Sm. 161° (*B.* 36, 3047 *C.* 1903 [2] 1008).
- $C_{44}H_{36}N_2$ C 89,2 — H 6,1 — N 4,7 — M. G. 592.
- $C_{44}H_{42}O_2$ 1) **1,4-Di[4-Amidotriphenylmethyl]benzol.** Sm. 358°. 2HCl (*B.* 37, 2004 *C.* 1904 [2] 225).
2) **1,4-Di[α -Phenylamidodiphenylmethyl]benzol.** Sm. 225° (*B.* 37, 2004 *C.* 1904 [2] 225).
- $C_{44}H_{66}O_5$ C 87,7 — H 7,0 — O 5,3 — M. G. 602.
- $C_{44}H_{66}O_5$ 1) **Peroxyd d. α -Oxytri[4-Methylphenyl]methan.** Sm. 169–170° (*B.* 37, 1628 *C.* 1904 [1] 1648).
C 78,3 — H 9,8 — O 11,9 — M. G. 674.
- $C_{44}H_{28}O_6N_2$ 1) **Aether d. α -Oxy- $\alpha\alpha$ -Dicamphoryläthan.** Sm. 90–95° (*B.* 36, 2636 *C.* 1903 [2] 626).
C 77,7 — H 4,1 — O 14,1 — N 4,1 — M. G. 680.
- $C_{44}H_{43}ON$ 1) **Tetrabenzoylindigweiss.** Sm. 217–218° (*B.* 36, 2765 *C.* 1903 [2] 835).
C 87,8 — H 7,2 — O 2,7 — N 2,3 — M. G. 601.
- $C_{44}H_{50}O_6N_4$ 1) **Di[4-Methylphenyl]methylhydroxylamin.** Sm. 155° (*B.* 37, 3161 *C.* 1904 [2] 1049).
C 69,3 — H 6,6 — O 16,8 — N 7,3 — M. G. 762.
- $C_{44}H_{92}O_6N$ 1) **o, o -Ditolylidisazodisantonsäure.** Sm. 164–166° (*B.* 36, 1396 *C.* 1903 [1] 1360).
- $C_{44}H_{45}O_5N_4Cl_2$ 1) **Pseudocerebrin.** Sm. 210° (212°) (*H.* 43, 22 *C.* 1904 [2] 1550).
1) **Verbindung (aus s-Dichlormethyläther u. Strychnin).** + 2AuCl₃ (*A.* 330, 117 *C.* 1904 [1] 1063).
- $C_{44}H_{50}O_6N_2Br_2$ 1) **Dibebeerinxylenammoniumbromid.** Sm. 258° (*Ar.* 236, 539).
— *III, 621.
- $C_{45}H_{68}O_6$ *1) **Glycerintrimyristin.** Sm. 55° (*B.* 36, 4344 *C.* 1904 [1] 434).
- $C_{45}H_{30}O_{15}N_{10}$ C 56,8 — H 3,2 — O 25,3 — N 14,7 — M. G. 950.
- $C_{45}H_{34}O_7Si$ 1) **Verbindung (aus 1,3-Dinitrobenzol u. Aceton).** Ba (*B.* 37, 836 *C.* 1904 [1] 1201).
- $C_{45}H_{33}O_6ClSi$ 1) **Tri[Dibenzoylmethyl]siliciumhydroxyd.** Salze siehe (*B.* 36, 1599 *C.* 1903 [2] 30; *B.* 36, 3209 *C.* 1903 [2] 1058).
- $C_{45}H_{33}O_6BrSi$ 1) **Tri[Dibenzoylmethyl]siliciumchlorid.** HCl, + FeCl₃, + AuCl₃ (*B.* 36, 1599 *C.* 1903 [2] 30; *B.* 36, 3209 *C.* 1903 [2] 1058).
- $C_{45}H_{33}O_6JSi$ 1) **Tri[Dibenzoylmethyl]siliciumbromid.** $\frac{1}{2}$ HBr, HBr (*B.* 36, 3210 *C.* 1903 [2] 1058).
- $C_{45}H_{33}O_6JSi$ 1) **Tri[Dibenzoylmethyl]siliciumjodid.** + J₂ (*B.* 36, 3211 *C.* 1903 [2] 1058).
- $C_{45}H_{76}O_{30}N_{10}S$ 1) **Verbindung (aus Pferdehaar)** (*C.* 1903 [2] 128).
- $C_{46}H_{34}O_2$ C 89,3 — H 5,5 — O 5,2 — M. G. 618.
- $C_{46}H_{40}N_2$ 1) **Peroxyd d. α -Oxydiphenyl-1-Naphtylmethan** (*B.* 37, 1638 *C.* 1904 [1] 1649).
C 89,0 — H 6,4 — N 4,5 — M. G. 620.
- $C_{46}H_{40}N_2$ 1) **1,4-Di[4-Amido-3-Methyltriphenylmethyl]benzol.** Sm. 277°. 2HCl (*B.* 37, 2005 *C.* 1904 [2] 225).

- $C_{48}H_{80}O_6$ C 75,8 — H 11,0 — O 13,2 — M. G. 728.
 1) β -Benzoat- $\alpha\gamma$ -Distearat d. $\alpha\beta\gamma$ -Trioxypropen. Sm. 64° (C. 1903 [1] 134).
- $C_{48}H_{50}ON_6$ C 78,6 — H 7,1 — O 2,3 — N 12,0 — M. G. 702.
 1) 3,3'-Di[Di(4-Dimethylamidophenyl)methyl]azoxybenzol. Sm. 176° (B. 36, 3472 C. 1903 [2] 1269).
- $C_{48}H_{88}O_{20}N_8S$ 1) Farbstoff (aus schwarzer Schafwolle) (C. 1903 [2] 128).
 $C_{47}H_{54}O_{16}$ C 64,5 — H 6,2 — O 29,3 — M. G. 874.
 1) Filmaron (oder $C_{47}H_{52}O_{18}$). Ca (C. 1903 [1] 1090; Ar. 242, 490 C. 1904 [2] 1417).
- $C_{48}H_{28}O_{11}$ 1) Tetrabenzoat d. Phloroglucinphthalein (B. 36, 1072 C. 1903 [1] 1181).
 $C_{48}H_{34}N_2$ C 90,3 — H 5,3 — N 4,4 — M. G. 638.
 1) 2,3,5,6-Tetraphenyl-1,4-Di[1-Naphtyl]-1,4-Dihydro-1,4-Diazin. Sm. 223° (C. r. 138, 1612 C. 1904 [2] 344).
 $C_{48}H_{44}N_2$ C 88,9 — H 6,8 — N 4,3 — M. G. 648.
 1) 1,4-Di[4-Methylamido-3-Methyltriphenylmethyl]benzol. Sm. 287° (B. 37, 2006 C. 1904 [2] 225).
 $C_{48}H_{68}O_{20}$ C 59,7 — H 7,0 — O 33,2 — M. G. 964.
 1) Pentaacetat d. Strophantin. Sm. 236—238° (M. 19, 396). — *III, 476.
- $C_{48}H_{32}O_{41}$ 2) Verbindung (aus Glykose). = $(C_6H_{10}O_5)_8 + H_2O$ (A. 329, 356 C. 1904 [1] 436).
 $C_{48}H_{38}O_2N_2$ C 85,7 — H 5,3 — O 4,8 — N 4,2 — M. G. 672.
 1) Ketazin d. 3-Benzoylmethyl-2,5-Diphenylfuran. Sm. 219—220° (B. 36, 2434 C. 1903 [2] 503).
 $C_{48}H_{40}O_2N_2$ C 85,2 — H 5,9 — O 4,7 — N 4,1 — M. G. 676.
 1) 1,4-Di[4-Acetylamidotriphenylmethyl]benzol. Sm. 231° (B. 37, 2005 C. 1904 [2] 225).
 $C_{48}H_{44}O_{12}N_6$ C 64,3 — H 4,9 — O 21,4 — N 9,4 — M. G. 896.
 1) Hexa[Phenylamidoformiat] d. Duleit. Sm. 315° (C. r. 138, 635 C. 1904 [1] 1068).
 2) Hexa[Phenylamidoformiat] d. d-Mannit. Sm. 303° (C. r. 138, 635 C. 1904 [1] 1068).
 $C_{49}H_{36}O_{13}$ C 70,7 — H 4,3 — O 25,0 — M. G. 832.
 1) Tetrabenzoat d. Barbaloïn (C. 1903 [1] 234; Bl. [3] 21, 672). — *III, 453.
- $C_{49}H_{48}O_6N_{12}$ C 63,1 — H 5,1 — O 13,7 — N 18,0 — M. G. 932.
 1) Tetra[Benzylidenhydrazid] d. Hippurylasparagylasparaginsäure. Sm. oberh. 150° u. Zers. (J. pr. [2] 70, 190 C. 1904 [2] 1397).
 $C_{50}H_{34}O_{11}$ 3) Pentabenzoat d. Cyanomaklurin. Sm. 171—173° (C. 1904 [2] 439).
 $C_{50}H_{40}O_{14}$ C 69,4 — H 4,6 — O 25,9 — M. G. 864.
 1) Tetrabenzoat d. Homonataloïn (C. r. 128, 1403; C. 1903 [1] 291; Bl. [3] 27, 1229 C. 1903 [1] 401). — *III, 455.
 $C_{50}H_{80}O_2$ C 84,3 — H 11,2 — O 4,5 — M. G. 712.
 1) Verbindung (aus Kautschuk) (C. 1904 [2] 705).
 2) Verbindung (aus Pontianakharz) (C. 1904 [1] 518).
 $C_{50}H_{54}O_6N_4$ C 74,4 — H 6,7 — O 11,9 — N 6,9 — M. G. 806.
 1) 1,3-Xylylendistrychniniumhydroxyd. Bromid, Pikrat (B. 36, 1680 C. 1903 [2] 29).
 $C_{50}H_{54}O_4N_4Br_2$ 2) 1,3-Xylylendistrychniniumbromid. + 6 CH_4O (B. 36, 1680 C. 1903 [2] 29).
 $C_{50}H_{58}O_{12}N_8S$ 1) Farbstoff (aus schwarzem Rosshaar) (C. 1903 [2] 128).
 $C_{51}H_{43}O_{14}$ C 69,7 — H 4,8 — O 25,5 — M. G. 878.
 1) Tetrabenzoat d. Nataloïn (C. 1903 [1] 291; Bl. [3] 27, 1229 C. 1903 [1] 401). — *III, 454.
- $C_{51}H_{98}O_6$ *1) Tripalmitat d. $\alpha\beta\gamma$ -Trioxypropen. Sm. 65,5° (C. 1903 [1] 133).
 $C_{51}H_{102}O_3$ C 80,3 — H 13,4 — O 6,3 — M. G. 762.
 1) trim. Aldehyd d. Margarinsäure. Sm. 77—78° (Soc. 85, 835 C. 1904 [2] 509).
 $C_{52}H_{70}O_{81}$ C 52,4 — H 5,9 — O 41,7 — M. G. 1190.
 1) Tetradekaacetat eines Mannotetrasaccharid (aus Salepschleim) (B. 36, 3201 C. 1903 [2] 1055).
 $C_{52}H_{82}O_{23}$ *1) Aphrodäsein (C. 1903 [2] 1133).

- $C_{52}H_{94}O_{11}$ C 69,8 — H 10,5 — O 19,7 — M. G. 894.
 1) Anhydrid d. Diacetoxybehensäure. Sm. 63° (B. 36, 3606 C. 1903 [2] 1314).
- $C_{52}H_{87}O_{16}N$ C 61,5 — H 8,7 — O 28,4 — N 1,4 — M. G. 1013.
 1) Solanin (B. 36, 3204 C. 1903 [2] 1066).
- $C_{52}H_{93}O_{18}N$ *1) Solanin (B. 36, 3554 C. 1903 [2] 1376).
- $C_{52}H_{33}O_7N_4S_4$ 1) Farbstoff (aus Chinizarinhydrat u. 2, 2'-Diamidodiphenyldisulfid) (C. 1904 [2] 1175).
- $C_{52}H_{99}O_{16}N_6S$ 1) Hippomelanin + $\frac{1}{2}H_2O$ (J. Th. 1886, 478). — *III, 491.
- $C_{52}H_{90}O_{10}N_{20}P_4$ 1) Guanylsäure (C. 1903 [2] 385).
- $C_{53}H_{100}O_6$ C 76,4 — H 12,0 — O 11,5 — M. G. 832.
 1) Glycerindipalmitinolein. Sm. 29,2° (33—34°) (M. 24, 411 C. 1903 [2] 629; M. 25, 932 C. 1904 [2] 1617).
- $C_{53}H_{102}O_6$ C 76,3 — H 12,2 — O 11,5 — M. G. 834.
 1) $\alpha\beta$ -Dipalmitat- γ -Stearat d. $\alpha\beta\gamma$ -Trioxypentan. Sm. 60° (C. 1903 [1] 134).
 2) $\alpha\gamma$ -Dipalmitat- β -Stearat d. $\alpha\beta\gamma$ -Trioxypentan. Sm. 60° (C. 1903 [1] 134).
- $C_{53}H_{34}O_3N_4$ C 82,2 — H 4,4 — O 6,2 — N 7,2 — M. G. 774.
 1) Azin (aus Phenanthrenchinon u. 3, 3'-Diamido-4, 4'-Di[Phenylamido]-diphenylketon). Sm. 220° (G. 34 [1] 379 C. 1904 [2] 111).
- $C_{54}H_{36}O_6$ C 79,6 — H 4,7 — O 15,7 — M. G. 814.
 1) Dibenzolat d. Dilakton $C_{40}H_{30}O_6$. Sm. 208° (B. 36, 3047 C. 1903 [2] 1008).
- $C_{54}H_{50}O_{16}N_6$ C 62,4 — H 4,8 — O 24,7 — N 8,1 — M. G. 1038.
 1) Hexa[Phenylamidoformiat] d. Cellose. Sm. 280° (Bl. [3] 31, 857 C. 1904 [2] 644).
- $C_{54}H_{105}O_6B$ 1) Gem. Anhydrid d. Stearinsäure u. Borsäure. Sm. 73° (B. 36, 2224 C. 1903 [2] 421).
- $C_{54}H_{42}O_8N_2S_6$ 1) Verbindung (aus 2, 5-Dimercapto-1, 4-Benzochinon-2, 5-Diphenyläther). Sm. 235° (A. 336, 143 C. 1904 [2] 1299).
- $C_{55}H_{106}O_6$ C 76,6 — H 12,3 — O 11,1 — M. G. 862.
 1) α -Palmitat- $\beta\gamma$ -Distearat d. $\alpha\beta\gamma$ -Trioxypentan (α -Palmitodistearin). Sm. 63° (C. 1903 [1] 134; B. 36, 1125 C. 1903 [1] 1312; C. 1904 [2] 414).
 2) β -Palmitat- $\alpha\gamma$ -Distearat d. $\alpha\beta\gamma$ -Trioxypentan (β -Palmitodistearin). Sm. 63° (B. 36, 2767 C. 1903 [2] 896; C. 1904 [2] 414).
- $C_{55}H_{40}O_{10}N_2$ C 74,3 — H 4,5 — O 18,0 — N 3,1 — M. G. 888.
 1) Benzoylderivat d. Suprarenin (M. 24, 282 C. 1903 [2] 302). — *III, 667.
- $C_{56}H_{104}O_6ClJ$ *1) Chloridjodid d. Glycerid $C_{35}H_{104}O_6$ (B. 35, 4307 C. 1903 [1] 297).
- $C_{56}H_{40}$ C 94,5 — H 4,5 — M. G. 712.
 1) bim. 9, 10-Dibenzylidenanthracen. Sm. 184° (M. 25, 797 C. 1904 [2] 1137).
- $C_{56}H_{40}O_{14}$ C 71,8 — H 4,3 — O 23,9 — M. G. 936.
 1) Pentabenzolat d. Barbaloin (C. 1903 [1] 234).
- $C_{56}H_{42}O$ C 92,1 — H 5,7 — O 2,2 — M. G. 730.
 1) Aether d. 9-[α -Oxybenzyl]-10-Benzylanthracen. Sm. 213—215° (M. 25, 804 C. 1904 [2] 1137).
- $C_{56}H_{36}O_4$ C 81,7 — H 10,5 — O 7,8 — M. G. 822.
 1) Dicholesterylster d. Oxalsäure. Sm. 224° (M. 24, 665 C. 1903 [2] 1236).
- $C_{56}H_{106}O_6$ C 76,7 — H 12,3 — O 11,0 — M. G. 876.
 1) Glycerid (aus Schweinefett). Sm. 66° (B. 36, 2771 C. 1903 [2] 896; C. 1904 [2] 414).
- $C_{56}H_{36}O_6N_4$ C 76,2 — H 2,9 — O 14,5 — N 6,4 — M. G. 882.
 1) 1, 2, 2', 1'-Anthrachinonazhydrin (B. 36, 3432 C. 1903 [2] 1279).
- $C_{56}H_{36}O_{14}Cl_4$ 1) Pentabenzolat d. Tetrachlorbarbaloin (Bl. [3] 21, 675). — *III, 453.
- $C_{56}H_{50}O_5N_2$ C 75,2 — H 5,6 — O 16,1 — N 3,1 — M. G. 894.
 1) Tribenzoylmethylpseudomorphin. 2HCl, (2HCl, PtCl₄) (A. 294, 217). — *III, 678.
- $C_{56}H_{61}O_{14}N_7$ C 64,2 — H 5,0 — O 21,4 — N 9,4 — M. G. 1045.
 1) Hepta[Phenylamidoformiat] d. Perseit. Sm. 297° (C. r. 138, 635 C. 1904 [1] 1068).

- $C_{57}H_{36}$ C 95,0 — H 5,0 — M. G. 720.
 1) Tribenzyltrinäphtylenbenzol (Tribenzyldekacylen). Sm. 270° (*Bl.* [3] 31, 930 *C.* 1904 [2] 779).
- $C_{57}H_{104}O_6$ *1) Trioleat d. $\alpha\beta\gamma$ -Trioxypropan (*C.* 1903 [1] 133).
 $C_{57}H_{106}O_6$ *1) Glycerinoleindistearin. Sm. 42° (44°) (*B.* 36, 2772 *C.* 1903 [2] 897; *M.* 25, 931 *C.* 1904 [2] 1617).
- $C_{57}H_{110}O_6$ *1) Tristearat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 71—71,5° (*C.* 1903 [1] 133).
 $C_{57}H_{56}O_{12}N_{18}$ C 59,1 — H 5,0 — O 16,6 — N 19,3 — M. G. 1158.
 1) Hydrazitetra[Benzylidenhydrazid] d. Hippuryldiasparagyl-asparaginsäure. Sm. 190° (*J. pr.* [2] 70, 193 *C.* 1904 [2] 1398).
- $C_{61}H_{96}O_{20}N_{10}S$ 1) Verbindung (aus weisser Schafwolle) (*C.* 1903 [2] 128).
 $C_{62}H_{50}O_{10}N_2S_6$ 1) Tetraacetat d. Verb. $C_{64}H_{48}O_6N_2S_6$. Sm. 163° (*A.* 336, 144 *C.* 1904 [2] 1299).
 C 79,2 — H 5,7 — O 15,1 — M. G. 954.
 1) polym. Benzaldehyd. Sm. 125—130° (*B.* 36, 1575 *C.* 1903 [1] 1397).
 $C_{63}H_{118}O_{18}N_3$ C 63,0 — H 9,5 — O 24,0 — N 3,5 — M. G. 1199.
 1) Tri[P-Nitro-P-Oxystearat] d. $\alpha\beta\gamma$ -Trioxypropan (*C.* 1904 [1] 261).
 $C_{64}H_{48}O_{16}$ C 71,6 — H 4,5 — O 23,9 — M. G. 1072.
 1) Hexabenzooat d. Homonataloin (*C. r.* 128, 1403; *Bl.* [3] 27, 1229 *C.* 1903 [1] 401). — *III, 455.
 $C_{65}H_{50}O_{16}$ C 71,8 — H 4,6 — O 23,8 — M. G. 1086.
 1) Hexabenzooat d. Nataloin (*C.* 1903 [1] 291; *Bl.* [3] 27, 1229 *C.* 1903 [1] 401). — *III, 454.
- $C_{66}H_{46}O_6S_8$ 1) Verbindung (aus 2,5-Dimerkapto-1,4-Benzochinondiphenyläther u. 2 Molec. 2,3,5-Trimerkapto-1,4-Dioxybenzol-2,3,5-Triphenyläther). Sm. 164° (*A.* 336, 146 *C.* 1904 [2] 1299).
 $C_{68}H_{82}O_{19}N_6$ C 63,1 — H 4,8 — O 23,5 — N 8,6 — M. G. 1294.
 1) Okto[Phenylamidoformiat] d. Milchzucker. Sm. 275—280° (*C. r.* 138, 635 *C.* 1904 [1] 1068).
 2) Okto[Phenylamidoformiat] d. Trehalose. Sm. 283° (*C. r.* 138, 635 *C.* 1904 [1] 1068).
- $C_{69}H_{38}O_{15}$ C 75,0 — H 3,3 — O 21,7 — M. G. 1104.
 1) Hexabenzooat d. Tridioxylbenzoylenbenzol (*B.* 33, 2442). — *III, 245.
- $C_{70}H_{69}O_7N_6Fe$ 1) Verbindung (aus Hämin) (*H.* 40, 427 *C.* 1904 [1] 680).
 $C_{71}H_{69}O_{18}N_6S_6$ 1) Penta[2-Naphtylsulfonat] d. Glutokyrin + H_2O . Sm. 137 bis 138° (*C.* 1903 [1] 1145; 1903 [2] 580).
 $C_{72}H_{65}O_{13}N_2$ C 74,0 — H 5,8 — O 17,8 — N 2,4 — M. G. 1168.
 1) Verbindung (aus Formaldehyd u. 2-Oxynaphtalin). Sm. 158—160° (*G.* 34 [1] 215 *C.* 1904 [1] 1523).
 $C_{73}H_{98}O_{32}$ C 59,0 — H 6,5 — O 34,5 — M. G. 1484.
 1) Tetrabenzoylconvolvulinsäure. Sm. 115—118° (*C.* 1897 [1] 419). — *III, 435.
- $C_{62}H_{96}O_{21}$ C 71,0 — H 4,8 — O 24,2 — M. G. 1386.
 1) Dekabenzoylanhydrodimannit. Sm. 155—156° (*Bl.* [3] 31, 619 *C.* 1904 [2] 97).
- $C_{83}H_{79}O_5N_{11}Fe$ 1) Verbindung (aus Hämin) (*H.* 40, 425 *C.* 1904 [1] 680).
 $C_{90}H_{61}O_{12}Br_9Si_2$ 1) Verbindung (aus Dibenzoylmethan) (*B.* 36, 3211 *C.* 1903 [2] 1058).
 $C_{90}H_{153}O_{61}N_{37}P_{10}$ 1) β -Nukleinsäure. Ba (*H.* 39, 557 *C.* 1903 [2] 1285).
 $C_{95}H_{87}O_{27}N_{11}$ C 62,8 — H 4,9 — O 23,8 — N 8,5 — M. G. 1813.
 1) Undeka[Phenylamidoformiat] d. Melezitose. Sm. 180° u. Zers. (*C. r.* 138, 635 *C.* 1904 [1] 1068).

Register der Eigennamen.

Abieten $C_{18}H_{28}$
 Abictoresen $C_{30}H_{50}O$
 Abyssiniu $C_{29}H_{44}O_{13}$
 Acakatechin $C_{15}H_{14}O_6$
 Acocantherin $C_{39}H_{45}O_{13}$
 Adlumin $C_{39}H_{39}O_{12}N$
 Adrenalin $C_9H_{13}O_3N$
 Adrenalon $C_9H_{11}O_3N$
 Aethylroth $C_{23}H_{25}N_2J$
 Akonin $C_{25}H_{41}O_4N$
 Albanan $C_{30}H_{44}O$
 Alectorinsäure $C_{27}H_{21}O_{15}$
 Alizarineyaningrün
 $C_{28}H_{22}O_5N_2S$
 Alizarinirisol $C_{21}H_{15}O_6NS$
 Alizarinreinblau
 $C_{21}H_{15}O_3N_2BrS$
 Alkamagrün $C_{34}H_{44}O_8$
 Alkannaroth $C_{30}H_{32}O_7$
 Alkanasäure $C_{39}H_{32}O_7$
 Allomerochinen $C_6H_{15}O_2N$
 Alochrysin $C_{12}H_8O_5$
 Aloin $C_{16}H_{15}O_7$
 Aloresinotannol $C_{23}H_{20}O_8$
 Alstol C_2H_3O
 Alstonin $C_{14}H_{22}O$
 Alumidin $C_{30}H_{30}O_9N$
 Amorphen $C_{15}H_{24}$
 Anchusaroth $C_{30}H_{32}O_8$
 Anchusasäure $C_{30}H_{25}O_8$
 Anhydrodierythrinsäure
 $C_{40}H_{46}O_{21}$
 Anilopyrin $C_{17}H_{17}N_3$
 Anthesterin $C_{28}H_{48}O$
 Anthrachinongrün
 $C_{28}H_{22}O_3N_2S_2$
 Antiarin $C_{31}H_{30}O_8$
 Apionol $C_6H_6O_4$
 Apopinol $C_{16}H_{15}O$
 Ardisiol $C_{35}H_{19}O_{16}$
 Areolatin $C_{12}H_{10}O_7$
 Areolath $C_9H_5O_4$
 Arternisterin $C_{28}H_{16}O_8$
 Artemisinsäure $C_{15}H_{14}O_3$
 Aspidin $C_{25}H_{32}O_8$
 Atractyleu $C_{15}H_{24}$
 Atractylol $C_{15}H_{26}O$
 Atranorsäure $C_{30}H_{13}O_9$
 Aneubigenin $C_7H_9O_3$
 Aucubin $C_{13}H_{19}O_8$

Barringtonenin $C_{10}H_{16}O_8$
 Barringtonenitin $C_{15}H_{24}O_3$
 Barringtonin $C_{18}H_{28}O_{10}$
 Beljiabieninsäure $C_{13}H_{20}O_2$
 Beljiabietinolsäure $C_6H_{24}O_2$
 Beljiabietinsäure $C_{30}H_{30}O_2$
 Beljoresen $C_{21}H_{36}O$
 Benzaurin $C_{19}H_{16}O_8$
 Benzoltriozonid $C_6H_6O_9$
 Betasterin $C_{26}H_{44}O$
 Bilipurpurin $C_{33}H_{34}O_5N_4$
 Biscumarin $C_{15}H_{12}O_4$
 Bisdinaphthopyryl $C_{42}H_{26}O_2$
 Brasan $C_{16}H_{10}O$
 Butein $C_{12}H_{12}O_5$
 Butin $C_{15}H_{12}O_5$

Calaminthion $C_{10}H_{16}O$
 Camphancarbonsäure
 $C_{11}H_{18}O_2$
 Campherisochinon $C_{10}H_{14}O_2$
 Campholandiöl $C_{10}H_{16}O_2$
 Campholenalkohol $C_{10}H_{18}O$
 Cannabinol $C_{21}H_{36}O_3$
 Carbousninsäure $C_{19}H_{16}O_8$
 Careleminsäure $C_{40}H_{56}O_4$
 Careleresen $C_{27}H_{40}O_3$
 Caricleminsäure $C_{38}H_{56}O_4$
 Cariclemisäure $C_{37}H_{56}O_4$
 Casimirin $C_{30}H_{32}O_5N_2$
 Casimiroil $C_{27}H_{48}O_3$
 Ceratophyllin $C_{10}H_{12}O_4$
 Cerebronsäure $C_{25}H_{50}O_8$
 Ceropten $C_{18}H_{18}O_4$
 Cetrarin $C_{26}H_{30}O_{12}$
 Cetratasäure $C_{29}H_{24}O_{14}$
 Chaulmoograsäure $C_{18}H_{32}O_2$
 Chaulmoogren $C_{18}H_{34}$
 Chaulmoogrylalkohol
 $C_{18}H_{34}O$
 Chinizarinblau $C_{21}H_{15}O_3N$
 Chinizaringrün $C_{28}H_{22}O_3N_2$
 Chinolylfarmazyl $C_{22}H_{17}N_5$
 Chinoxalophenanthrazin
 $C_{22}H_{12}N_4$
 Chitoheptonsäure $C_7H_{14}O_8$
 Cholestandion $C_{27}H_{45}O_2$
 Cholestanonol $C_{27}H_{44}O_2$
 Cholestenon $C_{27}H_{44}O$

Chrysarobin $C_{15}H_{13}O_3$
 Ciliansäure $C_{30}H_{28}O_8$
 Cineolen $C_{10}H_{18}$
 Clupein $C_{30}H_{52}O_9N_{14}$
 Clupeon $C_{28}H_{56}O_9N_{14}$
 Cocacetin $C_{18}H_{12}O_7$
 Cocacitrin $C_{28}H_{32}O_{17}$
 Cocafavetin $C_{29}H_{18}O_9$
 Cocafavin $C_{34}H_{38}O_{19}$
 Cocaose $C_8H_{12}O_6$
 Cocasäure $C_{18}H_{16}O_4$
 Codeinon $C_{15}H_{10}O_3N$
 Coleleminsäure $C_{39}H_{56}O_4$
 Cumarin C_9H_8O
 Cusparein $C_3H_3O_2N_5$
 Cyanomakturin $C_{15}H_{14}O_8$
 Cyklammin $C_{25}H_{42}O_{12}$
 Cyklamiretin $C_{14}H_{22}O_2$
 Cyklen $C_{10}H_{18}$
 Cyklogallipharol $C_{20}H_{36}O$
 Cyklogallipharsäure
 $C_{21}H_{36}O_3$
 Cytosidin $C_{11}H_{15}N$
 Cytosolin $C_{11}H_{11}ON$
 Cytosolinsäure $C_{11}H_9O_3N$
 Cytosin $C_4H_5ON_3$

Decocacetin $C_{15}H_{14}O_6$
 Dehydrochinin $C_{20}H_{22}O_2N_2$
 Dehydrochloridhämmin
 $C_4H_5O_2N_4Fe$
 Dehydrocinchonidin
 $C_{19}H_{20}ON_2$
 Dehydrochämamin
 $C_{34}H_{32}O_4N_4Fe$
 Diazopapaverin $C_{20}H_{19}O_4N_3$
 Dicamphendion $C_{30}H_{26}O_9$
 Dicampherpinakon $C_{20}H_{32}O_2$
 Dichrysarobin $C_{30}H_{24}O_7$
 Digitsäure $C_{20}H_{32}O_8$
 Diindigotin $C_{35}H_{16}O_4N_4$
 Diffusin $C_{31}H_{36}O_{10}$
 Dinaphthofluoavin $C_{22}H_{14}N_4$
 Dinaphthylenthiophen
 $C_{24}H_{12}S$
 Dioscin $C_{34}H_{58}O_9$
 Dulcid $C_8H_{10}O_4$
 Dypnopinakolen $C_{25}H_{22}$

Elaeomargarinsäure $C_{18}H_{32}O_2$

Emetin $C_{28}H_{40}O_5N_9$
Epinephrin $C_{10}H_{13}O_3N$
Epinephrinhydrat $C_8H_{13}O_3N$
Erythrin $C_{12}H_{14}O_{20}$
Eudesmin $C_{28}H_{30}O_8$
Eupophin $C_{18}H_{20}O_3NBr$
Evernurol $C_{25}H_{26}O_7$
Evernuursäure $C_{24}H_{26}O_6$
Euphorbon $C_{27}H_{44}O$

Farnesol $C_{15}H_{26}O$

Filmaron $C_{47}H_{54}O_{16}$
Flavanon $C_{15}H_{12}O_2$
Flavonol $C_{15}H_{10}O_3$
Fluoresceinsäure $C_{20}H_{14}O_6$
Fukonsäure $C_8H_{10}O_6$
Fukugetin $C_{17}H_{12}O_6$

Galbanumsäure $C_{13}H_{20}O_2$

Galipol $C_{15}H_{26}O$
Gallipharinsäure $C_{10}H_{12}O_2$
Galloflavin $C_{15}H_8O_{10}$
Gallorubin $C_{16}H_9O_7N$
Globulariacitrin $C_{27}H_{30}O_{16}$
Globulariasäure $C_{26}H_{32}O_7$
Glutokyrin $C_{21}H_{20}O_8N_6$
Glykollalin $C_{13}H_{16}O_{10}$
Gratiogenin $C_{31}H_{50}O_6$
Gratioligenin $C_{37}H_{50}O_{10}$
Gratiolin $C_{43}H_{70}O_{15}$
Gratiolon $C_{30}H_{46}O_8$
Guajen $C_{13}H_{24}$
Guanylsäure $C_{32}H_{36}O_{40}N_{20}P_4$
Gurjoresen $C_{17}H_{28}O_2$
Gurjoresinolsäure $C_{18}H_{26}O_4$
Gurjuresinol $C_{15}H_{26}O$
Gurjuturboresinol $C_{20}H_{30}O_4$
Gynocardiasäure $C_{21}H_{40}O_2$

Hämatoporphyrin

$C_8H_{28}O_6N_4$
Hämin $C_{34}H_{38}O_4N_4ClFe$
Heminukleinsäure
 $C_{38}H_{53}O_{25}N_9P_4$
Herniariasäure $C_{28}H_{46}O_{14}$
Herniarin $C_{34}H_{56}O_{19}$
Hippomelanin $C_{55}H_{56}O_{18}N_8S$
Hippurylasparaginsäure
 $C_{18}H_{14}O_9N_2$
Hippurylasparagylasparagin-
säure $C_{21}H_{24}O_{12}N_4$
Homomatticosäure $C_{11}H_{12}O_6$

Indanthren $C_{28}H_{14}O_4N_2$

Indenophenazinglykolsäure
 $C_{16}H_{10}O_5N_2$
Indophtalol $C_{26}H_{20}O_2N_2$
Indophtenin $C_{14}H_{10}ONS_2$
Isoallitursäure $C_8H_8O_4N_4$
Isoalstonin $C_{11}H_{22}O$

Isoanemonin $C_{16}H_{16}O_4$

Isoanemonsäure $C_{10}H_{10}O_5$
Isobiliansäure $C_{24}H_{34}O_8$
Isocareleminsäure $C_{40}H_{56}O_4$
Isocarieleminsäure $C_{38}H_{56}O_4$
Isococalsäure $C_{18}H_{18}O_4$
Isocoleleminsäure $C_{37}H_{56}O_4$
Isodicampher $C_{20}H_{30}O_2$
Isohydranisoil $C_{16}H_{18}O_4$
Isolaudanin $C_{20}H_{22}O_4N$
Isoleucin $C_8H_{13}O_2N$
Isomyristicin $C_{11}H_{12}O_3$
Isoolivil $C_{20}H_{24}O_7$
Isophellogensäure $C_{21}H_{40}O_4$
Isophellonsäure $C_{22}H_{42}O_3$
Isopurpurgallon $C_{11}H_{16}O_5$
Isopyroin $C_{28}H_{46}O_2N$
Isopyrophtalon $C_{14}H_{19}O_2N$
Isorhodeose $C_6H_{12}O_5$
Isorosindonsäure $C_{22}H_{14}O_5N_2$
Isosphäritbalan $C_{40}H_{14}O_2$
Isotaceleminsäure $C_{37}H_{56}O_4$
Isoxazol C_3H_3ON
Isoxyhton $C_{12}H_{18}O$

Karakin $C_{15}H_{24}O_{12}N_8$

Kaseansäure $C_6H_{16}O_7N_2$
Kaseinokyrin $C_{22}H_{47}O_8N_9$
Kaseinsäure $C_{12}H_{24}O_5N_3$
Kristallalban $C_{19}H_{26}O$
Kryogenin $C_8H_{10}O_2N_4$

Laktukol $C_{21}H_{34}O$

Laktukon $C_{36}H_{56}O_2$
Laricopininsäure $C_{21}H_{30}O_3$
Laricopinonsäure $C_{20}H_{28}O_4$
Larixinsäure $C_6H_{10}O_3$
Leiphämsäure $C_{22}H_{40}O_5$
Lepranthasäure $C_{20}H_{32}O_2$
Lepranthin $C_{25}H_{40}O_{10}$
Leprariasäure $C_{19}H_{18}O_6$
Lupinidin $C_{15}H_{26}N_2$
Lutidon C_7H_9ON
Lygosin $C_{17}H_{14}O_3$

Maclayetin $C_{11}H_{18}O_4$

Maclayin $C_{17}H_{32}O_{10}$
Malachitgrün $C_{25}H_{26}ON_2$
Mannamin $C_6H_{12}O_5N$
Maretin $C_8H_{11}ON_2$
Masticeinsäure $C_{23}H_{36}O_4$
Masticolsäure $C_{23}H_{36}O_4$
Masticonsäure $C_{32}H_{48}O_4$
Masticoresen $C_{35}H_{56}O_4$
Matikocampher $C_{15}H_{18}O$
Mesoporphyrin $C_{34}H_{38}O_4N_4$
Mesotan $C_6H_{10}O_4$
Metacopaivasäure $C_{11}H_{16}O_2$
Metochinon $C_{20}H_{24}O_4N_2$
Musculamin $C_8H_{14}N_2$
Myristicin $C_{11}H_{12}O_3$

Naphtakrihydridin $C_{22}H_{28}N_2$

Naphtobenzofluorindin
 $C_{22}H_{14}N_4$
Naphtochinoxalnaphtazin
 $C_{22}H_{12}N_4$
Naphtofluorindin $C_{26}H_{16}N_4$
Naphtophenanthrindin
 $C_{17}H_{11}N$
Naphtophenanthrindion
 $C_{17}H_{11}ON$
Naphtophenoxazon $C_{16}H_9O_2N$
Nerol $C_{10}H_{18}O$
Nerolidol $C_{15}H_{26}O$
Nigrotinsäure $C_{11}H_8O_7S$
Norcocaflavetin $C_{36}H_{14}O_9$
Norectaron $C_{10}H_8O_4$
Noryohimbim $C_{20}H_{32}O_4N_2$
Nukleotin $C_{26}H_{42}O_{18}N_4$

Okto glyceryl $C_{16}H_{24}O_8N_8$

Olivaceinsäure $C_{17}H_{22}O_6$
Olivacein $C_{17}H_{22}O_6$
Olivetorsäure $C_{21}H_{26}O_7$
Olivil $C_{20}H_{24}O_7$
Ozobenzol $C_6H_6O_9$

Palabieninsäure $C_{13}H_{20}O_2$

Palabietinolsäure $C_{15}H_{24}O_2$
Palabietinsäure $C_{20}H_{30}O_2$
Pannarol $C_5H_5O_3$
Papaveramin $C_{21}H_{25}O_6N$
Parasaccharin $C_6H_{10}O_5$
Parasaccharon $C_6H_{10}O_5$
Parasaccharonsäure $C_6H_{10}O_7$
Pepton $C_{23}H_{36}O_{10}N_7$
— $C_{22}H_{36}O_{16}N_3$
Peradrenalin $C_9H_9O_4N$
Phaseolunatin $C_{10}H_{17}O_6N$
Phaseolunatinsäure $C_{10}H_{16}O_8$
Phellogensäure $C_{21}H_{10}O_4$
Phloraspin $C_{28}H_{46}O_8$
Photosantoninsäure $C_{30}H_{42}O_9$
Pikroglubularin $C_{24}H_{30}O_7$
Pinocampophorylalkohol
 $C_6H_{15}O$

Pinophoron $C_9H_{14}O$

Piperidocid $C_{23}H_{30}O_2N_2$
Pleopsäure $C_{17}H_{28}O_4$
Podophylloresin $C_{14}H_{15}O_4$
Polystichalin $C_{23}H_{35}O_3$
Polystichin $C_{23}H_{35}O_3$
Polystichocitrin $C_{23}H_{35}O_3$
Polystichumsäure $C_{22}H_{32}O_5$
Porin $C_{43}H_{76}O_{10}$
Porinin C_5H_6O
Porinsäure $C_{11}H_{19}O_4$
Porphyridin $C_{10}H_{16}O_2N_8$
Prolylalanin $C_8H_{14}O_3N_2$
Protococalsäure $C_6H_8O_2$
Protoisococalsäure $C_6H_8O_2$
Protolichestersäure

$C_{18}H_{30}O_5$
 $C_{19}H_{32}O_4$

Protopapaverin $C_{19}H_{19}O_4N$
Pseudoaspidin $C_{25}H_{32}O_8$
Pseudocerebrin $C_{44}H_{52}O_8N$
Pseudopapaverin $C_{21}H_{21}O_4N$
Purpurogallon $C_{11}H_6O_5$
Pyrophthalin $C_{14}H_{10}ON_2$

Ramalinsäure $C_{30}H_{26}O_{15}$
Resorcianthrachinon
 $C_{26}H_{18}O_4$
Rhein $C_{15}H_8O_8$
Rheosmin $C_{10}H_{12}O_2$
Rhodinal $C_{10}H_{18}O$
Rhodinamin $C_{10}H_{21}N$
Rhodinsäure $C_{10}H_{13}O_2$
Rhomnol $C_{40}H_{51}O_{37}N_{14}P_4$
Ricidin $C_{18}H_{18}O_4N_4$
Ricinin $C_8H_8O_2N_2$
— $C_{18}H_{18}O_4N_4$
Ricininsäure $C_8H_8O_4N_2$
Rimusäure $C_{16}H_{20}O_3$
Robigenin $C_{15}H_{10}O_6$
Robinin $C_{29}H_{40}O_{19}$
Rutin $C_{27}H_{30}O_{16}$

Samandatin $C_{21}H_{37}O_3N_2$
Santolsäure $C_{15}H_{23}O_5$
Santoronsäure $C_{10}H_{18}O_6$
Santorsäure $C_{13}H_{18}O_8$
Sapogenin $C_{30}H_{50}O_6$

Saponarin $C_{19}H_{22}O_{11}$
Saponin $C_{15}H_{22}O_{10}$
Sapotoxin $C_{23}H_{38}O_{10}$
Saxatsäure $C_{25}H_{46}O_8$
Scammonolsäure $C_{18}H_{30}O_3$
Scombrin $C_{32}H_{79}O_8N_{16}$
Sepsin $C_5H_{14}O_2N_2$
Skatosin $C_{16}H_{16}O_4N$
Skimmianin $C_{32}H_{29}O_9N_3$
Solanidin $C_{29}H_{51}O_2N$
Solanin $C_{29}H_{57}O_{18}N$
Sophorin $C_{77}H_{30}O_{16}$
Sparteinoxyd $C_{15}H_{26}O_2N_2$
Sphäritalan $C_{30}H_{44}O_2$
Spilanthin $C_{15}H_{30}$
Spilanthol $C_{37}H_{64}O_3N_2$
Spongosterin $C_{19}H_{32}O$
Stictaurin $C_{36}H_{22}O_9$
Strophantin $C_{30}H_{46}O_{12}$
Sturin $C_{24}H_{71}O_9N_{17}$
Suprarenin $C_9H_{13}O_3N$

Tacamahinsäure $C_{43}H_{72}O_2$
Tacamaholsäure $C_{15}H_{25}O_2$
Tacelemisäure $C_{37}H_{58}O_4$
Taceleresen $C_{15}H_{24}O$
Takoresen $C_{15}H_{25}O$
— $C_{21}H_{33}O$
Tetrajauajakchinon $C_{28}H_{24}O_8$
Tetrarin $C_{32}H_{52}O_{12}$
Thujamenthen $C_{10}H_{18}$

Tricylen $C_{10}H_{18}$
Trinaphtylenbenzol $C_{38}H_{18}$
Tryptophan $C_{11}H_{12}O_2N_2$

Umbellon $C_{10}H_{14}O$
Urobromalsäure $C_8H_{11}O_7Br_3$
Uroferrinsäure $C_{35}H_{26}O_{15}N_8S$
Usnidinsäure $C_{18}H_{18}O_8$

Valaktenbernsteinsäure
 $C_9H_{12}O_8$
Valaktenpropionsäure
 $C_8H_{12}O_3$
Vernin $C_{10}H_{13}O_5N_5$
Veronal $C_8H_{12}O_3N_2$
Vetiol $C_9H_{14}O$
— $C_{11}H_{18}O$
Vetiron $C_{13}H_{22}O$
Vetiven $C_{15}H_{24}$
Vetivenol $C_{15}H_{28}O$

Xanthanwasserstoff
 $C_2H_2N_2S_3$

Yohimboasäure $C_{26}H_{26}O_4N_2$

Zellobionsäure $C_{12}H_{22}O_{12}$
Zeorsäure $C_{23}H_{22}O_{10}$



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von

Dr. M. M. Richter.

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Das Lexikon der Kohlenstoff-Verbindungen bildet ein vollständiges Verzeichnis aller bekannten organischen Verbindungen, geordnet nach den empirischen Formeln. Während im BEILSTEIN (3. Aufl.) und den dre abgeschlossen Ergänzungsbänden 18342 Verbindungen beschrieben sind, verzeichnet das Lexikon mit seinen drei Supplementen 112164 (einhundert und zwölf tausend einhundert und vierundsechzig Verbindungen).

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